

SERVICE HISTORY

[illegible]

William Adams



Service Information System

Previous Screen

Product: MINI HYD EXCAVATOR
 Model: 308E2 CR MINI HYD EXCAVATOR FJX06445
 Configuration: 308E2 CR Mini Hydraulic Excavator FJX00001-UP
 (MACHINE) POWERED BY C3.3B Engine

FILTER INFORMATION:
**308E2 CR Mini Hydraulic Excavator FJX00001-UP (MACHINE)
 POWERED BY C3.3B Engine**

Qty.	Note	Part No.	Part Name
			LUBRICATION SYSTEM
☐	Oil	377-6969	FILTER-ENGINE OIL (LUBE)
	Y		<u>LINES GP-ENGINE OIL</u>
			AIR INLET AND EXHAUST SYSTEM
☒	Outer	415-2592	FILTER ELEMENT AS-AIR (PRIMARY)
	Y		<u>AIR CLEANER GP</u>
☒	Inner	415-2593	FILTER ELEMENT AS-AIR (SECONDARY)
	Y		<u>AIR CLEANER GP</u>
☐		437-1572	FILTER AS (DIESEL PARTICULATE FILTER)
	Y		<u>FILTER GP-DIESEL PARTICULATE</u>
☐		437-1573	FILTER AS (OXIDATION CATALYST)
	Y		<u>FILTER GP-DIESEL PARTICULATE</u>
			FUEL SYSTEM
☐	F.D.	1G-7206	FILTER-FUEL (IN-LINE)
	Y		<u>LINES GP-FUEL</u>
☐	Water Sep	363-5819	FILTER AS-WATER SEP & FUEL
	Y		<u>FILTER GP-WATER SEP & FUEL</u>
☐		421-3418	
	Y		<u>FILTER GP-WATER SEP & FUEL</u>
	Y		<u>LINES GP-FUEL</u>
			HYDRAULIC SYSTEM
☐		152-5717	CAP-DUST
	Y		<u>LINES GP-AUXILIARY HYDRAULIC -LONG STICK</u>
☐		152-5718	CAP-DUST
	Y		<u>LINES GP-AUXILIARY HYDRAULIC -LONG STICK</u>
☐		161-2560	CAP-DUST
	Y		<u>LINES GP-AUXILIARY HYDRAULIC -LONG STICK</u>
☐		161-2561	CAP-DUST
	Y		<u>LINES GP-AUXILIARY HYDRAULIC -LONG STICK</u>
☐	Hyd	362-1163	FILTER ELEMENT-OIL (HYDRAULIC)
	Y		<u>FILTER GP-OIL</u>
☐		362-1164	FILTER GP-OIL
	Y		<u>FILTER GP-OIL</u>
☐		416-5211	
	Y		<u>FILTER GP-OIL</u>
	Y		<u>LINES GP-RETURN & FILTER</u>
☐		6V-0852	CAP-DUST
	Y		<u>LINES GP-PUMP</u>
	Y		<u>LINES GP-SWING MOTOR</u>
	Y		<u>LINES GP-SWING MOTOR</u>
☐		8C-3451	CAP-DUST (HYDRAULIC OIL)
	Y		<u>LINES GP-RETURN & FILTER</u>
			OPERATOR STATION
☐	Cab	386-6124	FILTER ELEMENT-CAB AIR (PRIMARY)
	Y		<u>DUCT GP-CAB AIR</u>
☐	A/C Cab	435-2997	FILTER (AIR CONDITIONER)

Martin said not
 to hold filters
 yet as long
 way to service
 23/2/18 -

Every 100 Service Hours or 2 Weeks for Machines Used in Severe Applications

Boom and Stick Linkage - Lubricate

Initial 250 Service Hours

Final Drive Oil - Change

Hydraulic System Oil Filter (Return) - Replace

Every 250 Service Hours

Belts - Inspect/Adjust

Condenser (Refrigerant) - Clean

Cooling System Coolant Sample - Obtain

Engine Oil Sample - Obtain

Final Drive Oil Sample - Obtain

Quick Coupler - Check

Swing Bearing - Lubricate

Initial 500 Hours (for New Systems, Refilled Systems, and Converted Systems)

Cooling System Coolant Sample - Obtain

Every 500 Service Hours

Boom, Stick, and Frame - Inspect

Engine Air Filter Element - Clean/Replace

Engine Oil and Filter - Change

Fuel Lift Pump Strainer - Replace

Fuel System Primary Filter (Water Separator) Element - Replace

Hydraulic System Oil Sample - Obtain

Lifting Hook - Inspect

Every 600 Service Hours of Continuous Hammer Use

Hydraulic System Oil - Change

Hydraulic System Oil Filter (Return) - Replace

Every 1000 Service Hours

Battery - Clean

Battery Hold-Down - Tighten

Belts - Replace

Boom and Stick Linkage - Lubricate

Boom and Stick Linkage - Lubricate

Boom Swing Cylinder Pins - Lubricate

Track Adjustment - Adjust

Track Adjustment - Adjust

Window Washer Reservoir - Fill

Window Wiper - Inspect/Replace

Windows - Clean

Every 10 Service Hours or Daily for First 100 Hours

Blade Linkage - Lubricate

Boom and Stick Linkage - Lubricate

Every 10 Service Hours or Daily

Air Cleaner Dust Valve - Clean/Inspect

Air Conditioner/Cab Heater Filter (Recirculation) - Inspect/Replace

Bucket Linkage - Lubricate

Cooling System Coolant Level - Check

Engine Air Filter Service Indicator - Inspect

Engine Oil Level - Check

Fuel System Water Separator - Drain

Fuel Tank Water and Sediment - Drain

Hydraulic System Oil Level - Check

Indicators and Gauges - Test

Seat Belt - Inspect

Thumb - Lubricate

Track Adjustment - Inspect

Travel Alarm - Test

Undercarriage - Check

Every 10 Service Hours or Daily for Machines Used in Severe Applications

Blade Linkage - Lubricate

Every 50 Service Hours

Blade Linkage - Lubricate

Quick Coupler - Lubricate

Quick Coupler - Lubricate

Swing Frame Pin - Lubricate

Every 100 Service Hours

Swing Gear - Lubricate

Maintenance Interval Schedule (SEBU9004-10)

SMCS - 7000

i09847217

Ensure that all safety information, warnings, and instructions are read and understood before any operation or any maintenance procedures are performed.

The user is responsible for the performance of maintenance. All adjustments, the use of proper lubricants, fluids, filters, and the replacement of components due to normal wear and aging are included. Failure to adhere to proper maintenance intervals and procedures may result in diminished performance of the product and/or accelerated wear of components.

Use mileage, fuel consumption, service hours, or calendar time, **WHICH EVER OCCURS FIRST**, to determine the maintenance intervals. Products that operate in severe operating conditions may require more frequent maintenance. Refer to the maintenance procedure for any other exceptions that may change the maintenance intervals.

Note: Before each consecutive interval is performed, all maintenance from the previous interval must be performed.

The following guidelines should be followed if the service hours are not met:

Items listed between 10 and 100 service hours should be performed at least every 3 months.

Items listed between 250 and 500 service hours should be performed at least every 6 months.

Items listed between 1000 service hours and 2500 service hours should be performed at least every year.

When Required

Battery - Recycle

Battery or Battery Cable - Inspect/Replace

Blade Cutting Edges - Inspect/Replace

Bucket Tips - Inspect/Replace

Cab Air Filter (Fresh Air) - Clean/Replace

Engine Air Filter Element - Clean/Replace

Engine Air Filter Secondary Element - Replace

Fuel System - Prime

Fuel Tank Cap and Strainer - Clean

Fuses - Replace

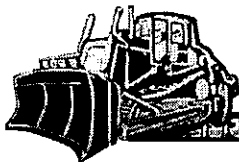
Fuses - Replace

Hydraulic Tank Screen - Clean

Oil Filter - Inspect

Quick Coupler - Clean/Inspect

Radiator Core - Clean



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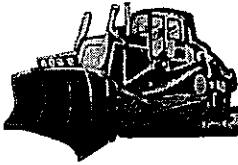
Service Checklist

Plant No. P409

Date:	Hrs:
Service Type:	Service Person:
Model: 308E2 CR Excavator	
Serial No: FJX06445	Eng. No: 8GE2746
Notes:	

Affix Service
Label Here

Service item	500	1000	2000	OK	X	Comments
SOS engine oil every 500 hours	•	•	•			
Change engine filter	•	•	•			
Change engine oil	•	•	•			
Check coolant Level and Bottle	•	•	•			
Check cooling system hoses	•	•	•			
Pressure test coolant system	•	•	•			
Check Coolant Concentrate (TEST STRIPS)	•	•	•			
Check Windscreen Wiper Blades	•	•	•			
Check Windscreen Washer Bottle	•	•	•			
Check Hydraulic Oil Level	•	•	•			
Check Vee Belts	•	•	•			
Check Oil – Final Drives	•	•	•			
Check Batteries	•	•	•			
Check Warning and Indicator System	•	•	•			
Check Travel Alarm Operation	•	•	•			
Check Track Adjustment and Condition	•	•	•			
Check Track Rollers	•	•	•			
Check Air Con Operation	•	•	•			
Clean Cab Filters	•	•	•			
Check and clean/replace Outer Air Filter	•	R	R			
Blow Out Hydraulic Oil Cooler	•	•	•			
Blow Out Radiator Core	•	•	•			
Lube Swing Drive Gear	•	•	•			
Lube Boom, Stick, Bucket Pins	•	•	•			
Lube Blade Linkage	•	•	•			
Fill out Service Sticker	•	•	•			



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Service Checklist

Plant No. P409

MIBUS BROS

(Aust) Pty. Ltd.

Date: <u>7-3-25</u>	Hrs: <u>5381</u>
Service Type: <u>1000</u>	Service Person: <u>JF/PC</u>
Model: 308E2 CR Excavator	
Serial No: FJX06445	Eng. No: 8GE2746
Notes:	

DATE

22-6-23

HRS/KM

4854

NEXT SERVICE

5354

NEXT SERVICE TYPE

1000

SOS ENGINE OIL

Service item	500	1000	2000	OK	X	Comments
SOS engine oil every 500 hours	•	•	•	✓		
Change engine filter	•	•	•	✓		
Change engine oil	•	•	•	✓		
Check coolant Level and Bottle	•	•	•	✓		
Check cooling system hoses	•	•	•	✓		
Pressure test coolant system	•	•	•	✓		
Check Coolant Concentrate (TEST STRIPS)	•	•	•	✓		
Check Windscreen Wiper Blades	•	•	•	✓		
Check Windscreen Washer Bottle	•	•	•	✓		
Check Hydraulic Oil Level	•	•	•	✓		
Check Vee Belts	•	•	•	✓		
Check Oil – Final Drives	•	•	•	✓		
Check Batteries	•	•	•	✓		
Check Warning and Indicator System	•	•	•	✓		
Check Travel Alarm Operation	•	•	•	✓		
Check Track Adjustment and Condition	•	•	•	✓		man
Check Track Rollers	•	•	•	✓		
Check Air Con Operation	•	•	•	✓		leak at pump
Clean Cab Filters	•	•	•	✓		
Check and clean/replace Outer Air Filter	•	R	R	✓		
Blow Out Hydraulic Oil Cooler	•	•	•	✓		
Blow Out Radiator Core	•	•	•	✓		
Lube Swing Drive Gear	•	•	•	✓		
Lube Boom, Stick, Bucket Pins	•	•	•	✓		
Lube Blade Linkage	•	•	•	✓		
Fill out Service Sticker	•	•	•	✓		

Service item	500	1000	2000	OK	X	Comments
Change Fuel Filter	•	•	•	✓		
Change Fuel/Water Separator	•	•	•	✓		
Check Swing Gear Grease Level	•	•	•	✓		
Clean Fuel Tank Cap Breather	•	•	•	✓		
Clean Engine Breather	•	•	•	✓		
Connect ET clear old codes/sync hrs update	•	•	•			
Clean Hydraulic Tank Internal Screen		•	•	✓		
Change Oil Final Drives		•	•			
Check/Replace Inner Air Filter		•	R			
Engine Tappet Set			•			
Check Fire Extinguisher – Tag in date?	•	•	•	✓		To be tagged every 12 months
Check First Aid Kit – swap with new one	•	•	•			Needs to be done every service
Check ROPS/FOPS (where fitted)	•	•	•	✓		
DPF needs cleaning every 3500hrs						over due



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Service Checklist

Plant No. P409

Date: <u>7/7/22</u>	Hrs: <u>4242</u>
Service Person: <u>Zac/Locky</u>	
Model: 308E2 CR Excavator	
Serial No: FJX06445	Eng. No: 8GE2746
Service Type: <u>2000</u>	
Notes:	

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(Aust) Pty. Ltd.

DATE

9/9/21

HRS/KM

3790

NEXT SERVICE

4290

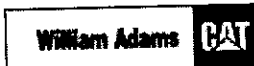
NEXT SERVICE TYPE

2000

SOS ENGINE OIL

Service item	500	1000	2000	OK	X	Comments
SOS engine oil every 500 hours	•	•	•	✓		<u>done 2004</u>
Change engine filter	•	•	•	✓		
Change engine oil	•	•	•	✓		
Check coolant Level and Bottle	•	•	•	✓		
Check cooling system hoses	•	•	•	✓		
Pressure test coolant system	•	•	•	✓		
Check Coolant Concentrate (TEST STRIPS)	•	•	•	✗		
Check Windscreen Wiper Blades	•	•	•	✓		
Check Windscreen Washer Bottle	•	•	•	✓		
Check Hydraulic Oil Level	•	•	•	✓		
Check Vee Belts	•	•	•	✓		
Check Oil – Final Drives	•	•	•	✓		
Check Batteries	•	•	•	✓		
Check Warning and Indicator System	•	•	•	✓		
Check Travel Alarm Operation	•	•	•	✓		
Check Track Adjustment and Condition	•	•	•	✓		
Check Track Rollers	•	•	•	✓		
Check Air Con Operation	•	•	•	✓		
Clean Cab Filters	•	•	•	✓		
Check and clean/replace Outer Air Filter	•	R	R	✓		
Blow Out Hydraulic Oil Cooler	•	•	•	✓		
Blow Out Radiator Core	•	•	•	✓		
Lube Swing Drive Gear	•	•	•	✓		
Lube Boom, Stick, Bucket Pins	•	•	•	✓		
Lube Blade Linkage	•	•	•	✓		
Fill out Service Sticker	•	•	•	✓		

Service item	500	1000	2000	OK	X	Comments
Change Fuel Filter	•	•	•	✓		
Change Fuel/Water Separator	•	•	•	✓		
Check Swing Gear Grease Level	•	•	•	✓		
Clean Fuel Tank Cap Breather	•	•	•	✓		
Clean Engine Breather	•	•	•	✓		
Connect ET clear old codes/sync hrs update	•	•	•	—		
Clean Hydraulic Tank Internal Screen		•	•	✓		
Change Oil Final Drives		•	•	—		
Check/Replace Inner Air Filter		•	R	✓		
Engine Tappet Set			•	—		
Check Fire Extinguisher – Tag in date?	•	•	•	✓		To be tagged every 12 months
Check First Aid Kit – swap with new one	•	•	•	✓		Needs to be done every service
Check ROPS/FOPS (where fitted)	•	•	•	✓		



Previous Screen

Service Information System

Welcome: mibus

Product: MINI HYD EXCAVATOR

Model: 308E2 CR MINI HYD EXCAVATOR FJX06445

Configuration: 308E2 CR Mini Hydraulic Excavator FJX00001-UP (MACHINE) POWERED BY C3.3B Engine

Operation and Maintenance Manual

308E2 CR Mini Hydraulic Excavator

Media Number -SEBU9004-07

Publication Date -01/05/2015

Date Updated -20/02/2018

i04759228

Swing Gear - Lubricate

SMCS - 7063-086

NOTICE

Improper lubrication can cause damage to machine components.

To avoid damage, make sure that the proper amount of grease is applied to the swing drive.

When the amount of grease in the compartment becomes too large, the agitation loss becomes large, thereby accelerating grease deterioration.

Grease deterioration can cause damage to the pinion gear of the swing drive and swing internal gear.

Not enough grease will result in poor gear lubrication.

Wipe all of the fittings before you apply lubricant.

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Service Checklist

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(Aust) Pty. Ltd.

Date <u>31/7/19</u>	Plant No: <u>P409</u>	Model <u>308E2 CR Excavator</u>
Serial number <u>FJX06445</u>	Hrs <u>2170</u>	
Service type <u>2000</u>	Service person <u>Jake Zac</u>	

DATE 21-1-19

HRS/KM

1670

NEXT SERVICE

2170

NEXT SERVICE TYPE

2000

SOS ENGINE OIL

Special Notes.

Service item	500	1000	2000	OK	X
Change engine filter	•	•	•	✓	
Change engine oil	•	•	•	✓	
Change Hydraulic Case Drain Filter	•	•	•	✓	
Change Hydraulic Pilot Filter	•	•	•	✓	
Check coolant Level and Bottle	•	•	•	✓	
Check cooling system hoses	•	•	•	✓	
Pressure test coolant system	•	•	•	✓	
Check Windscreen Wiper Blades	•	•	•	✓	
Check Windscreen Washer Bottle	•	•	•	✓	
Check Hydraulic Oil Level	•	•	•	✓	
Check Swing Drive Oil Level	•	•	•	✓	
Check Vee Belts	•	•	•	✓	
Check Oil – Final Drives	•	•	•	✓	
Check Batteries	•	•	•	✓	
Check Warning and Indicator System	•	•	•	✓	
Check Travel Alarm Operation	•	•	•	✓	
Check Track Adjustment and Condition	•	•	•	✓	
Check Track Rollers	•	•	•	✓	
Check Air Con Operation	•	•	•	✓	
Clean Cab Filters	•	•	•	✓	
Check and clean/replace Outer Air Filter	•	R	R	✓	
Blow Out Hydraulic Oil Cooler	•	•	•	✓	
Blow Out Radiator Core	•	•	•	✓	
Lube Swing Drive Gear	•	•	•	✓	
Lube Boom, Stick, Bucket Pins	•	•	•	✓	
Fill out Service Sticker	•	•	•	✓	
Check fire extinguisher tag in date? In charge? Usable condition?	•	•	•	✓	
First Aid kit swapped with new one – if no kit then N/A	•	•	•	✓	
Drain Sediment from Fuel Tank	•	•	•	✓	
Change Hydraulic Return Filter	•	•	•	✓	
Change Fuel Filter	•	•	•	✓	
Change Fuel/Water Separator	•	•	•	✓	
Check Swing Gear Grease Level	•	•	•	✓	
Clean Fuel Tank Cap Breather	•	•	•	✓	
Clean Engine Breather	•	•	•	✓	
Clean Hydraulic Tank Internal Screen	•	•	•	✓	
Change Oil Final Drives	•	•	•	✓	
Check/Replace Inner Air Filter	•	•	R	✓	
Engine Tappet Set	•	•	•	✓	

Needs to be tagged every 12 months
not tagged

Needs to be done every service

MIBUS BROS

Service Checklist

Date 24/9/18	Plant No: P409	Model 308E2 CR Excavator
Serial number FJX06445	Hrs 1175 hrs	
Service type 1,000hr	Service person Zact Adam	

Special Notes.

Service item	500	1000	2000	OK	X	Comments
Change engine filter	•	•	•	✓	✓	
Change engine oil	•	•	•	✓	✓	
Change Hydraulic Case Drain Filter	•	•	•	✓	✓	
Change Hydraulic Pilot Filter	•	•	•	✓	✓	
Check coolant Level and Bottle	•	•	•	✓	✓	
Check cooling system hoses	•	•	•	✓	✓	
Pressure test coolant system	•	•	•	✓	✓	
Check Windscreen Wiper Blades	•	•	•	✓	✓	
Check Windscreen Washer Bottle	•	•	•	✓	✓	
Check Hydraulic Oil Level	•	•	•	✓	✓	
Check Swing Drive Oil Level	•	•	•	✓	✓	
Check Vee Belts	•	•	•	✓	✓	
Check Oil – Final Drives	•	•	•	✓	✓	
Check Batteries	•	•	•	✓	✓	
Check Warning and Indicator System	•	•	•	✓	✓	
Check Travel Alarm Operation	•	•	•	✓	✓	
Check Track Adjustment and Condition	•	•	•	✓	✓	
Check Track Rollers	•	•	•	✓	✓	
Check Air Con Operation	•	•	•	✓	✓	
Clean Cab Filters	•	•	•	✓	✓	
Check and clean/replace Outer Air Filter	•	R	R	✓	✓	
Blow Out Hydraulic Oil Cooler	•	•	•	✓	✓	
Blow Out Radiator Core	•	•	•	✓	✓	
Lube Swing Drive Gear	•	•	•	✓	✓	
Lube Boom, Stick, Bucket Pins	•	•	•	✓	✓	
Fill out Service Sticker	•	•	•	✓	✓	
Drain Sediment from Fuel Tank	•	•	•	✓	✓	
Change Hydraulic Return Filter	•	•	•	✓	✓	
Change Fuel Filter	•	•	•	✓	✓	
Change Fuel/Water Separator	•	•	•	✓	✓	
Check Swing Gear Grease Level	•	•	•	✓	✓	
Clean Fuel Tank Cap Breather	•	•	•	✓	✓	
Clean Engine Breather	•	•	•	✓	✓	
Clean Hydraulic Tank Internal Screen	•	•	•	✓	✓	
Change Oil Final Drives	•	•	•	✓	✓	
Check/Replace Inner Air Filter	•	•	R	✓	✓	
Engine Tappet Set	•	•	•	✓	✓	

↑
9/9/21

3790



MACHINE LOG



MIBUS BROS

MACHINE I.D. 308E2 CR Excavator

PH00

[illegible]

William Adams



WILLIAM ADAMS PTY. LTD - William Adams Pty. Ltd. 17-55 Nantilla Road

Clayton North VIC 3168 Australia

PHONE: 03 9566 0666

Web: www.williamadams.com.au Email: SOSManager@wadams.com.au



ENGINE

EQUIP NUM: P409

SERIAL NUMBER: FJX06445

CAT 308E2CR

No Action Required

T010-53179-0211

SAMPLE SHIP TIME (days) : 6

MIBUS BROTHERS PTY LTD

RECEIVED DATE: 28-Jun-23

Interp By: Tom Cokalis

Interpreted On: 30-Jun-23

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	22-Jun-23	16-Sep-22	19-Aug-22	11-Jul-22
Sample Id	T010-53179-0211	T010-52264-0410	T010-52241-0318	T010-52194-0413
Lab Date	28-Jun-23	21-Sep-22	29-Aug-22	13-Jul-22
Meter [Hr]	4854.0	4398.0	4332.0	4290.0
Meter On Fluid	564.0	108.0	42.0	1124.0
Fluid Brand	CASTROL	CASTROL	CASTROL	CASTROL
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	VECTON	VECTON	VECTON	VECTON
Fluid Change	Y	N	N	Y
Filter Change	Y	N	N	Y
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

For additional sample history, go to: my.cat.com

CONDITION / CONTAMINATION

	22-Jun-23	16-Sep-22	19-Aug-22	11-Jul-22
VISCOSITY (CENTISTOKES) / ASTM D445				
V100 Viscosity at 100 C	12.42	13.44	11.42	10.96
VISCOSITY (CENTISTOKES) / ASTM D445				
V40 Viscosity at 40 C	86.98	98.58	76.53	72.01

WEAR LEVELS / ADDITIVES

22-Jun-23 16-Sep-22 19-Aug-22 11-Jul-22

ELEMENTAL ANALYSIS (PPM) / ASTM D6185 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	0	0	0	1
Fe Iron	6	3	4	15
Cr Chromium	0	0	0	0
Al Aluminum	2	1	2	3
Pb Lead	0	0	0	0
Sn Tin	0	0	0	0
Si Silicon	2	2	3	5
Na Sodium	4	3	1	3
K Potassium	1	1	0	1
Mo Molybdenum	50	58	54	63
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Mn Manganese	0	0	0	0
Cd Cadmium	0	0	0	0
Ca Calcium	1465	1601	1448	1744
P Phosphorus	911	967	891	1004
Zn Zinc	1020	1142	1025	1216
Mg Magnesium	327	337	302	375
Ba Barium	0	0	0	0
B Boron	79	120	99	64

VISCOSITY INDEX

VI Viscosity Index	138	135	141	143
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INFRARED (UFM) / ASTM E2412

ST Soot	6	0	0	15
OXI Oxidation	15	14	15	16
SUL Sulfur Products	20	19	19	20
NIT Nitration	0	4	6	8

WATER & MOISTURE

W Water	N	N	N	N
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FUEL DILUTION (SCREEN)

F Fuel	N	N	P	P
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FUEL DILUTION (%) / ASTM D7093

PFc Percent Fuel	3.95	4.49	>10.5	>10.5
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CLEANLINESS

22-Jun-23 16-Sep-22 19-Aug-22 11-Jul-22

FERROUS DEBRIS

PQI PQ Index	0	0	0	0
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William Adams



WILLIAM ADAMS PTY LTD William Adams Pty Ltd 17-55 Nantulla Road

Clayton North Vic 3168 Australia

PHONE 03 9566 0666

Web: www.williamadams.com.au Email: SOSManager@wadams.com.au



AA

ENGINE

EQUIP NUM: P409

SERIAL NUMBER: FJX06445

CAT 308E2CR

No Action Required

Interp By: Barry Swindells

Interpreted On: 26-Sep-22

T010-52264-0410

SAMPLE SHIP TIME (days) : 5

MIBUS BROTHERS PTY LTD

RECEIVED DATE: 21-Sep-22

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

SAMPLE INFORMATION

	16-Sep-22	19-Aug-22	11-Jul-22	01-Feb-21
Sampled Date	16-Sep-22	19-Aug-22	11-Jul-22	01-Feb-21
Sample Id	T010-52264-0410	T010-52241-0318	T010-52194-0413	T010-51035-0219
Lab Date	21-Sep-22	29-Aug-22	13-Jul-22	04-Feb-21
Meter [Hr]	4398.0	4332.0	4290.0	3166.0
Meter On Fluid	108.0	42.0	1124.0	517.0
Fluid Brand	CASTROL	CASTROL	CASTROL	CASTROL
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	VECTON	VECTON	VECTON	engine
Fluid Change	N	N	Y	Y
Filter Change	N	N	Y	Y

PREVIOUS SAMPLE

URGENT !!! NOW OIL VISCOSITY AND FUEL TEST INDICATE A HIGH LEVEL OF FUEL DILUTION. INSPECT ENGINE & INVESTIGATE THE CAUSE OF FUEL DILUTION. POSSIBLE CAUSES OF FUEL DILUTION ARE LEAKING INJECTORS, INJECTOR ORINGS, FAILURE OF INJECTORS, FUEL TRANSFER PUMP AND ENGINE OVERFUELING. RESAMPLE AFTER REPAIRS.

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

	16-Sep-22	19-Aug-22	11-Jul-22	01-Feb-21
WATER (G/G) (ASTM D445)				
V100 Viscosity at 100 C	13.44	11.42	10.96	14.2

WATER (G/G) (ASTM D445)

V40 Viscosity at 40 C	98.58	76.53	72.01	105.6
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WEAR LEVELS / ADDITIVES

16-Sep-22 19-Aug-22 11-Jul-22 01-Feb-21

ELEMENTAL ANALYSIS (PPM) (ASTM D6185 (OIL) / ASTM D6130 (COOLANT))

Cu Copper	0	0	1	1
Fe Iron	3	4	15	14
Cr Chromium	0	0	0	1
Al Aluminum	1	2	3	3
Pb Lead	0	0	0	0
Sn Tin	0	0	0	1
Si Silicon	2	3	5	2
Na Sodium	3	1	3	2
K Potassium	1	0	1	1
Mo Molybdenum	58	54	63	69
Ni Nickel	0	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Mn Manganese	0	0	0	0
Cd Cadmium	0	0	0	0
Ca Calcium	1601	1448	1744	1747
P Phosphorus	967	891	1004	1069
Zn Zinc	1142	1025	1216	1268
Mg Magnesium	337	302	375	425
Ba Barium	0	0	0	0
B Boron	120	99	64	65

WATER (G/G) (ASTM D445)

VI Viscosity Index	135	141	143	135
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INFRARED (UM) (ASTM F2412)

ST Soot	0	0	15	20
OXI Oxidation	14	15	16	17
SUL Sulfur Products	19	19	20	21
NIT Nitration	4	6	8	8

WATER (G/G) (ASTM D445)

W Water	N	N	N	N
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FUEL DILUTION (SCREEN)

F Fuel	N	P	P	N
--------	---	---	---	---

FUEL DILUTION (%) (ASTM D7733)

PFC Percent Fuel	4.49	>10.5	>10.5	2.71
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CLEANLINESS

	16-Sep-22	19-Aug-22	11-Jul-22	01-Feb-21
FERROUS DEBRIS				
PQI PQ Index	0	0	0	6



ENGINE

EQUIP NUM: P409

SERIAL NUMBER: FJX06445

CAT 308E2CR



Action Required

Interp By: Barry Swindells

Interpreted On: 27-Jul-22

T010-52194-0413

SAMPLE SHIP TIME (days) : 2

MIBUS BROTHERS PTY LTD

RECEIVED DATE: 13-Jul-22

LOW VISCOSITY AND FUEL TESTS INDICATE A HIGH LEVEL OF FUEL DILUTION, AT YOUR EARLIEST CONVENIENCE, INSPECT ENGINE. POSSIBLE CAUSES OF FUEL DILUTION ARE : LEAKING INJECTORS, INJECTOR O-RINGS, INJECTOR FAILURES, FUEL TRANSFER PUMP AND ENGINE OVER FUELING, RESAMPLE AFTER INSPECTION OR ANY REPAIR.

SAMPLE INFORMATION

	11-Jul-22	01-Feb-21	27-Jun-20	31-Jul-19
Sampled Date	11-Jul-22	01-Feb-21	27-Jun-20	31-Jul-19
Sample Id	T010-52194-0413	T010-51035-0219	T010-50190-0226	T010-49217-0436
Lab Date	13-Jul-22	04-Feb-21	08-Jul-20	05-Aug-19
Meter (Hr)	4290.0	3166.0	2649.0	2170.0
Meter On Fluid	1124.0	517.0	479.0	500.0
Fluid Brand	CASTROL	CASTROL	CASTROL	CASTROL
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type	VECTON	engine		
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Make Up Fluid []			0.0	2.0

PREVIOUS SAMPLE

OIL CONDITION : SATISFACTORY. CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

For additional sample history, go to:

my.cat.com

CONDITION / CONTAMINATION

	11-Jul-22	01-Feb-21	27-Jun-20	31-Jul-19
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	10.96	14.2	14.0	13.3
VISCOSITY (CENTISTOKES) ASTM D445				
V40 Viscosity at 40 C	72.01	106.6	105.4	101.0

VISCOSITY INDEX

VI Viscosity Index	143	135	134	130
--------------------	-----	-----	-----	-----

WEAR LEVELS / ADDITIVES

	11-Jul-22	01-Feb-21	27-Jun-20	31-Jul-19
ELEMENTAL ANALYSIS (PPM) ASTM D6185 (OIL) / ASTM D6130 (COOLANT)				
Cu Copper	1	1	2	3
Fe Iron	15	14	16	17
Cr Chromium	0	1	1	<1
Al Aluminum	3	3	4	3
Pb Lead	0	0	0	<1
Sn Tin	0	1	0	<1
Si Silicon	5	2	3	4
Na Sodium	3	2	3	6
K Potassium	1	1	0	<1
Mo Molybdenum	63	69	69	48
Ni Nickel	0	0	0	<1
Ag Silver	0	0	0	<1
Ti Titanium	0	0	0	1
V Vanadium	0	0	0	<1
Mn Manganese	0	0	0	<1
Cd Cadmium	0	0	0	<1
Ca Calcium	1744	1747	1713	1275
P Phosphorus	1004	1069	1047	1000
Zn Zinc	1216	1268	1259	1284
Mg Magnesium	375	425	479	861
Ba Barium	0	0	0	
B Boron	64	65	46	7

INFRARED (UFM) ASTM E2412

	11-Jul-22	01-Feb-21	27-Jun-20	31-Jul-19
ST Soot	15	20	17	13
OXI Oxidation	16	17	17	14
SUL Sulfur Products	20	21	23	19
NIT Nitration	8	8	9	8

WATER HOTPLATE

W Water	N	N	N	N
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FUEL DILUTION (SCREEN)

F Fuel	P	N	N	N
--------	---	---	---	---

FUEL DILUTION (%) ASTM D7563

PFC Percent Fuel	>10.5	2.71	3.09	
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CLEANLINESS

	11-Jul-22	01-Feb-21	27-Jun-20	31-Jul-19
FERROUS DEBRIS				
PQI PQ Index	0	6	8	0

PHONE: 03 9566 0666

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William Adams**CAT****CONTACT INFORMATION**

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AUS 3305
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EQUIPMENT

EQUIP NUM: P409
SERIAL NUMBER: FJX06445
MODEL: 308E2CR
MANUFACTURER: CAT
COMPANY NAME: MIBUS BROTHERS PTY LTD
JOB SITE:
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE
COMP SERIAL NUM:
COMPARTMENT MODEL:
LABEL#:
SHOP JOB NUM:
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days): 3
SAMPLE LOCATION:

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

Interp By: Tom Cokalis

LAB #

T010-51035-0219

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

WEAR/CONTAMINATION - ADDITIVES/FORMULATION																											
SAMPLE DATE	SAMPLE ID	METER (HR)	METERON FLUID	FLUID CHANGE	CU	Fe	Cr	Al	Pd	Sn	Si	Nd	K	Mo	Ni	Ag	Ti	V	Mn	Ca	Co	P	Zn	Mo	Ba	B	
01-Feb-21		3166.0	517.0	Y	1	14	1	3	0	1	2	2	1	69	0	0	0	0	0	0	0	1747	1069	1268	425	0	65
		2649.0	479.0	Y	2	16	1	4	0	0	3	3	0	69	0	0	0	0	0	0	0	1713	1047	1259	479	0	46
																</											

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FLUID CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFC
01-Feb-21		CATROL	engine	15W-40	Y	Y	14.2	106.6	135	20	17	21	8	N	N	2.71
27-Jun-20		CATROL		15W-40	Y	Y	14.0	105.4	134	17	17	23	9	N	N	3.09
31-Jul-19		CATROL		15W-40	Y	Y	13.3	101.0	130	13	14	19	8	N	N	
24-Sep-18	T010-48282-0427	CATROL		15W-40	Y	Y	13.4	100.9	132	20	16	20	9	N	N	

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FLUID FILTER	POI
01-Feb-21		Y	Y	6
27-Jun-20		Y	Y	8
31-Jul-19		Y	Y	0
24-Sep-18	T010-48282-0427	Y	Y	7

Ag = Silver, Al = Aluminium, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, POI = Particle Counting Index, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

William Adams

CAT

CONTACT INFORMATION

KYLIE GRAHAM
MIBUS BROTHERS PTY. LTD.

PHONE:
FAX:
Email: kylie@mibusbros.com.au

Interp By: Barry Swindells

EQUIPMENT

EQUIP NUM: P409
SERIAL NUMBER: FXJ06445
MODEL: 308E2CR
MANUFACTURER: CAT
COMPANY NAME: MIBUS BROTHERS PTY LTD
JOB SITE:
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: ENGINE
COMP SERIAL NUM:
COMPARTMENT MODEL:
LABEL#:
SHOP JOB NUM:
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days): 11
SAMPLE LOCATION:

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-50190-0226

WEAR/CONTAMINATION - ADDITIVES/FORMULATION															
DATE	EXPIRATION DATE	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)
27-Jun-20		2649.0	479.0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
31-Jul-19		2170.0	500.0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
24-Sep-18	T010-48282-0427	1175.0	639.0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
22-Mar-18	T010-48088-0322	536.0	269.0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

DATE	EXPIRATION DATE	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)
27-Jun-20		CASTROL	15W-40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
31-Jul-19		CASTROL	15W-40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
24-Sep-18	T010-48282-0427	CASTROL	15W-40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
22-Mar-18	T010-48088-0322		15W-40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

OIL CLEANLINESS

DATE	EXPIRATION DATE	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)	WATER (ppm)
27-Jun-20		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
31-Jul-19		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
24-Sep-18	T010-48282-0427	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
22-Mar-18	T010-48088-0322	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Ag = Silver, Al = Aluminum, B = Boron, Ba = Barium, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PFC = Percent Fuel Content, PCI = Particle Quantifying Index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

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WILLIAM ADAMS PTY. LTD - William Adams Pty. Ltd., 17-55 Nantilla Road, Clayton North, Vic, 3168, Australia

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CONTACT INFORMATION

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FAX:

Email: kylie@mibusbros.com.au

Interp By: Tom Cokalis

EQUIPMENT

CUSTOMER EQUIP NUM : P409

SERIAL NUMBER : FJX06445

MODEL : 308E2CR

MANUFACTURER : CAT

COMPANY NAME : MIBUS BROTHERS PTY LTD

JOB SITE :

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE

COMP SERIAL NUM :

COMPARTMENT MODEL :

LABEL#:

SHOP JOB NUM :

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 5

SAMPLE LOCATION :

OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-49217-0436

WEAR/CONTAMINATION - ADDITIVES/FORMULATION														
SAMPLE DATE	SAMPLE ID	METER (HR.)	METER ON FLUID	FLUID CHANGE	FLUID WEIGHT	FLUID CHANGE	FLUID FILTER	FLUID CHANGE	Fe	Cr	Al	Pb	Sn	S
31-Jul-19		2170.0	500.0	Y	Y	Y	Y	Y	3	17	<1	3	<1	4
24-Sep-18	T010-48282-0427	1175.0	639.0	Y	Y	Y	Y	Y	36	28	4	<1	<1	5
22-Mar-18	T010-48088-0322	536.0	269.0	Y	Y	Y	Y	Y	113	41	2	4	<1	14

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION														
SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FLUID FILTER	FLUID CHANGE	V100	V40	VI	ST	OAT	SUL	NIT
31-Jul-19		CASTROL		15W-40	Y	Y	Y	13.3	101.0	130	13	14	19	8
24-Sep-18	T010-48282-0427	CASTROL		15W-40	Y	Y	Y	13.4	100.9	132	20	16	20	9
22-Mar-18	T010-48088-0322			15W-40	Y	Y	Y		76.9		7	17	19	9

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FLUID FILTER	FLUID CHANGE	PQI
31-Jul-19		Y	Y	Y	0
24-Sep-18	T010-48282-0427	Y	Y	Y	7
22-Mar-18	T010-48088-0322	Y	Y	Y	5

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, NIT = Nitration, Na = Sodium, Ni = Nickel, DXI = Oxidation, P = Phosphorus, PQI = Particle Quantifying Index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

WILLIAM ADAMS PTY. LTD - William Adams Pty. Ltd., 17-55 Nanilla Road, Clayton North, Vic, 3168, Australia

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William Adams

CONTACT INFORMATION

KYLIE GRAHAM
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FAX:

Email: kylie@mibusbros.com.au

Interp By: Tom Cokalis

EQUIPMENT

CUSTOMER EQUIP NUM : P409
SERIAL NUMBER : FJX06445
MODEL : 308E2CR
MANUFACTURER : CAT
COMPANY NAME : MIBUS BROTHERS PTY LTD
JOB SITE :
AREA :
REGION :

SAMPLE INFORMATION

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 15
SAMPLE LOCATION :

IRON IS SLIGHTLY HIGH. COPPER LEVEL IS SLIGHTLY HIGH. MAY BE DUE TO MIXING WITH PREVIOUS RESIDUAL OIL. ELEVATED LEVELS
APPEAR ACCEPTABLE DUE TO BREAK-IN PERIOD. SHOULD SETTLE DOWN AFTER ONE OR TWO OIL CHANGES. ALL OTHER TEST RESULTS
APPEAR ACCEPTABLE. AFTER INSPECTION RESAMPLE AT THE NEXT SERVICE INTERVAL TO RE-EVALUATE CONDITION.

LAB #

T010-48282-0427

Monitor

Compartment

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

		WEAR CONTRIBUTION																											
SAMPLE DATE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	Mo	Ni	Ag	Ti	V	Mn	Ca	Ga	P	Zn	Mg	B			
24-Sep-18	T010-48282-0427	1175.0	639.0	Y	Y	36	28	2	4	<1	<1	5	7	1	46	<1	<1	<1	<1	<1	<1	<1	<1	<1	1240	945	1319	796	7
22-Mar-18	T010-48088-0322	536.0	269.0	Y	Y	113	41	2	4	<1	<1	14	6	2	41	<1	<1	<1	<1	3	<1	<1	<1	<1	1320	716	906	606	27

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	V100	V40	VI	ST	OXI	SUL	NIT	W	F	PFC
24-Sep-18	T010-48282-0427	CASTROL		15W-40	Y	Y	Y	13.4	100.9	132	20	16	20	9	N	N	
22-Mar-18	T010-48088-0322			15W-40	Y	Y	Y		76.9		7	17	19	9	N	N	3.16

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
24-Sep-18	T010-48282-0427	Y	Y	7
22-Mar-18	T010-48088-0322	Y	Y	5

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, F = Fuel, Fe = Iron, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PQI =
Particle Quantifying Index, Pb = Lead, ST = Soot, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V100 = Viscosity@100C, V40 = Viscosity@40C, VI = Viscosity Index, W = Water, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

PHONE: 03 9566 0666

PHONE: 03 9566 0666

SAMPLE INFORMATION

COMPONENT NAME - HYDRAULIC SYSTEM

COMP SERIAL NUM:

COMPARTMENT MODEL:

LABEL#:

SHOP JOB NUM :

SAMPLE TYPE: OIL

CAMPBIE SHIP TIME (days) : 14

SAMPLE LOCATION:

EQUIPMENT

CUSTOMER EQUIP NUM: P409

SERIAL NUMBER: FJX06445

MODEL : 308E2CR

MANUFACTURER: CAT

COMPANY NAME : MIBUS BROTHERS PTY LTD

JOB SITE:

AREA:

REGION:

CONTACT INFORMATION

WILLIE GRAHAM

AMERICAN BROTHERS PTY. LTD.

PHONE:

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Email: kylie@mibusbrothers.com.au

Intern By: Tom Cokalis

... CONDITION SATISFACTORY. CONTINUE SAMPLING AT THE RECOMMENDED

LAB #

T010-48281-0209

SAMPLE		WEAR/CONTAMINATION - ADDITIVES/FORMULATION																					
		METER (HR)	METERION FLUID CHANGE	OIL FLUID CHANGE	C	AL	S	SP	ND	K	MG	N	FAG	Ti	V	Mn	Cd	Ga	P	Zn	Mg		
DATE		1175.0	520.0	Y	Y	8	7	1	<1	3	1	6	14	4	<1	<1	<1	<1	2711	704	915	19	2
																			282	334	429	4	<1
																			58	272	363	3	3

Oil Contamination - Oil Contamination

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION									
SAMPLE	DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	WATER CHANGE	V401	OXI
						Y	Y	41.7	N
			CASTROL			N	N	42.5	N
24-Sep-18							Y	42.5	N

Oil Cleanliness

OIL CLEANLINESS											DEP	DEP2
SAMPLE	DATE	FLUID SAMPLED	FLUID CHANGE	FILTER CHANGE	ISO	POI	FCO	FCO2	FCO3	FCO4	DEP	DEP2
24-Sep-18			Y	Y	23/21/18	1	48040	16146	1741		B1	DEB
18-May-18			N	N	22/20/17	4	30090	7080	1027		B1	DEB
22-Mar-18			N	Y	22/18/16	10	21150	2426	400		C1	M-D
T010-48095-0901												

10-48095-0301

N	Y	22/18/16	10	21150	2426	400	CU
N	Y						

Ni = Nickel, NO = Sodium, Na = Nitration, NIT = Molybdenum, Mo = Manganese, Mn = Magnesium, Mg = Potassium, K = Iron, ISO = ISO Rating, Cu = Chromium, Cr = Cadmium, Cd = Calcium, Ca = Boron, B = Phosphorus, POI = Oxidation, P = Phosphorus, POI

NOTE: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

PHONE: 03 9566 0666

William Adams

CONTACT INFORMATION

KYLIE GRAHAM
MIBUS BROTHERS PTY. LTD.

PHONE:
FAX:

Email: kylie@mibusbros.com.au

ntero By: Tom Cokalis

THESE SAMPLES AT THE RECOMMENDED INTERVAL.

EQUIPMENT

CUSTOMER EQUIP NUM : P409
SERIAL NUMBER : FJX06445
MODEL : 308E2CR
MANUFACTURER : CAT
COMPANY NAME : MIBUS BR

JOB SITE:
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : FINAL DRIVE REAR RIGHT
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 14
SAMPLE LOCATION :

Web: www.williamadams.com.au

AB#

7010-48281-0248

[illegible]

Oil Contamination - Oil Condition

OIL FORMULATION - Oil contents									
SAMPLE NO.	SAMPLE DATE	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER	VAD	OXI	W
		EL SANREID							
	24-Sep-18		CASTROL			Y	199.9	4	N
	22-Mar-18					N	182.7	4	N

Oil Cleanliness

SAMPLE ID	SAMPLE ID	DEPTH	ISO	POI	BLK	DEP	DEB
24-Sep-18	Y	Y	24/2422	112	11009	90172	A1
22-Mar-18	N	N	24/2422	83	11134	89676	B1

Fe = Iron, ISO = ISO Rating, Cu = Chromium, Cd = Cadmium, Cr = Chromium, Ni = Nickel, Oxi = Oxidation, P = Phosphorus, PCI = Phosphorus, Mo = Molybdenum, Nit = Nitration, Na = Sodium, Mg = Magnesium, Mn = Manganese, K = Potassium, W = Water, Zn = Zinc

... is a common thread.

Police: This analysis is intended as an aid in predicting mechanical wear, not guaranteeing it.

William Adams



WILLIAM ADAMS PTY. LTD - William Adams Pty. Ltd., 17-55 Nanitilla Road, Clayton North, Vic, 3168, Australia

PHONE: 03 9566 0666

Email: SOSManager@wadams.com.au Web: www.williamadams.com.au

CONTACT INFORMATION

KYLIE GRAHAM
MIBUS BROTHERS PTY. LTD.

PHONE:
FAX:

Email: kylie@mibusbros.com.au

Inter By: Tom Cokalis

EQUIPMENT

CUSTOMER EQUIP NUM.: P409
SERIAL NUMBER: FJX06445
MODEL: 308E2CR
MANUFACTURER: CAT
COMPANY NAME: MIBUS BROTHERS PTY LTD
JOB SITE:
AREA:
REGION:

SAMPLE INFORMATION

COMPARTMENT NAME: HYDRAULIC SYSTEM
COMP SERIAL NUM.:
COMPARTMENT MODEL:
LABEL#:
SHOP JOB NUM.:
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days): 12
SAMPLE LOCATION:

Customer Note: "Resampled due to ISO particle count slightly high" - OIL CONDITION SATISFACTORY, CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL.

LAB #

T010-48150-0307

WEAR/CONTAMINATION - ADDITIVES/FORMULATION															
SAMPLE DATE	SAMPLE ID	METER (UM)	METER	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE
18-May-18		656.0		N	N	N	N	N	N	N	N	N	N	N	N
22-Mar-18	T010-48095-0301	536.0		N	N	N	N	N	N	N	N	N	N	N	N

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION									
SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE
18-May-18					N	N	N	N	N
22-Mar-18	T010-48095-0301				N	N	N	N	N

OIL CLEANLINESS									
SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE	FLUID CHANGE
18-May-18		N	N	N	N	N	N	N	N
22-Mar-18	T010-48095-0301	N	N	N	N	N	N	N	N

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, Ni = Nickel, OX = Oxidation, P = Phosphorus, Pb = Particle Quantifying Index, Pt = Lead, Si = Silicon, S = Sulfur, Sn = Tin, Ti = Titanium, V = Vanadium, W = Water, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.



WILLIAM ADAMS PTY LTD - William Adams Pty. Ltd., 17-55 Nantilla Road, Clayton North, Vic, 3168, Australia

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CONTACT INFORMATION

ADAM ALEXANDER
MIBUS BROTHERS PTY LTD
PO BOX 557
PORTLAND, VIC
AUS 3305
PHONE:
FAX:

Email: workshnn@mibusbro.com.au

Interp By: Barry Swindells

Monitor	Compartment
1	1
2	2
3	3
4	4
5	5
6	6
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10	10
11	11
12	12
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97	97
98	98
99	99
100	100

NEEDED TO DEVELOP A TREND.

ABSTRACT

T010-48095-0301

EQUIPMENT

CUSTOMER EQUIP NUM : P409
SERIAL NUMBER : FJX06445

MODEL: 308E2CR

MANUFACTURER: CAT

COMPANY NAME : MIBUS BROTHERS P'Y LTD

JOB SITE:

AREA:

REGION:

SAMPLE INFORMATION

COMPARTMENT NAME : HYDRAULIC SYSTEM

COMP SERIAL NUM :

COMPARTMENT MODEL:

LABEL#:

SHOP JOB NUM:

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 14

SAMPLE LOCATION:

NON MAGNETIC PARTICLES ARE VISIBLE IN THIS SAMPLE. THIS MAY BE

SO PARTICLE COUNT IS SLIGHTLY HIGH, VISIBLE MAGNETIC & NON-MAGNETIC PARTICLES ARE ACCEPTABLE FOR ORIGINAL FILL OIL. SHOULD SETTLE DOWN AFTER TWO OR THREE OIL CHANGES. WE WILL MONITOR ACTIVITY OVER THE NEXT SERVICE INTERVAL. MORE SAMPLES

NEEDED TO DEVELOP A TREND.

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

[illegible]

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION

OIL FORMULATION - OIL CONDITION - OIL CONTAMINATION						
SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUIDS CHANGE	AV40 OXI W
22 Mar 18	T010-48065-0301				N	42.5
					Y	107

Oil Cleanliness

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	PQI	IP	SD	DEP	DEP2
22 Mar-18	T010-JR095-0301	N	Y	22/18/16	10	21150	2426	400	C1 M-D

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Ni = Nickel, Pb = Lead, Pt = Platinum, Rh = Rhodium, Ru = Ruthenium, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, Van = Viscosity@40C, W = Water, Zn = Zinc

No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

Another sample sent 23/5/18



PHONE: 03 9566 0666

Email: SOSManager@wadams.com.au Web: www.williamadams.com.au

SAMPLE INFORMATION

CUSTOMER EQUIP NUM : P409

SERIAL NUMBER : FJX06445

MODEL: 308E2CR

MANUFACTURER: CAT

COMPANY NAME - MIRIUS BROTHERS PTY LTD

JOB SITE:

AREA:

Interp By: Barry Swindells

Interp By: Barry Swindells

CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL. MORE SAMPLES NEEDED TO DEVELOP A TREND.

T010-48088-0342

OIL CLEANLINESS									
SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO VG	POL	ISO VG	1411 1411	DEP2	DEP2
on Mar 10		N	N	24/24/21	99	115468	91934	18897	A1 M-D

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, Ni = Nickel, OXI = Oxidation, P = Phosphorus, PCI = Particle Counting Index, Pb = Lead, ST = Soft, SUL = Sulfation, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

No warranty, expressed or implied, is made against failure of this piece of equipment or a component thereof.



PHONE: 03 9566 0666

Email: SOSManager@wadams.com.au Web: www.williamadams.com.au

SAMPLE INFORMATION

ADAM ALEXANDER
MIBUS BROTHERS PTY LTD
PO BOX 557
PORTLAND, VIC
AUS 3305
PHONE:
FAX:
Email: workshop@mibusbros.com.au

CUSTOMER EQUIP NUM : P409
SERIAL NUMBER : FJX06445
MODEL : 308E2CR
MANUFACTURER : CAT
COMPANY NAME : MIBUS BR
JOB SITE :
AREA :
REGION :

Interp By: Barry Swindells

CONDITION SATISFACTORY CONTINUE SAMPLING AT THE RECOMMENDED INTERVAL. MORE SAMPLES NEEDED TO DEVELOP A TREND.

LAB #
T010-48088-0343

WEAR/CONTAMINATION - ADDITIVES/FORMULATION

SAMPLE	SAMPLE ID	METER (HR)	METER ON FLUID	FLUID CHANGE	FILTER CHANGE	CU	CFB	CR	AI	PO	SH	SI	NI	MO	KT	W	NI	CO	CA	P	Zn	Mg	B
DATE		536.0		N	N	<1	80	2	1	<1	<1	5	3	1	<1	<1	<1	<1	2846	849	1113	11	1
22-Mar-18		536.0		N	N	<1	80	2	1	<1	<1	5	3	1	<1	<1	<1	<1	2846	849	1113	11	1

OIL EMULSION - OIL CONDITION - OIL CONTAMINATION

SAMPLE DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FLUID FILTER	NU40	OI	W
22-Mar-18					N	N	182.7	4	N

OIL CLEANLINESS

SAMPLE DATE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	ISO	PQI	4L	6L	740L	DEP	DEP2
22-Mar-18		N	N	24/24/22	83	11134	89676	22824	B1	DEB

Ag = Silver, Al = Aluminium, B = Boron, Ca = Calcium, Cd = Cadmium, Cr = Chromium, Cu = Copper, Fe = Iron, ISO = ISO Rating, K = Potassium, Mg = Magnesium, Mn = Manganese, Mo = Molybdenum, Ni = Nickel, OXI = Oxidation, P = Phosphorus, Pt = Platinum, Rh = Rhodium, Ru = Ruthenium, Sb = Antimony, Se = Selenium, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40C, W = Water, Zn = Zinc

... This article is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

PHONE: 03 9566 0666

E-mail: cosmanager@wadams.com.au Web: www.williamadams.com.au

SAMPLE INFORMATION

EQUIPMENT

COMPARTMENT NAME : ENGINE
COMP SERIAL NUM :
COMPARTMENT MODEL :
LABEL#:
SHOP JOB NUM :
SAMPLE TYPE: OIL
SAMPLE SHIP TIME (days) : 7
SAMPLE LOCATION :

CONTACT INFORMATION

CUSTOMER EQUIP NUM : P409
SERIAL NUMBER : FJX06445
MODEL : 308E2CR
MANUFACTURER : CAT
COMPANY NAME : MIBUS BROTHERS PTY LTD
JOB SITE :
AREA:
REGION:

Interro By: Barry Swindelis

REGION:

COPPER LEVEL IS HIGH. POSSIBLE RESIDUE FROM PREVIOUS OIL. SHOULD SETTLE DOWN AFTER TWO OR THREE OIL CHANGES. AS THE OIL HAS BEEN CHANGED, WE WILL MONITOR ACTIVITY OVER THE NEXT FEW SAMPLES. ALL OTHER TEST RESULTS APPEAR ACCEPTABLE. FURTHER OIL CHANGES NEEDED TO DEVELOP A TREND.

Monitor	Compartment
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LAB #
T010-18088-0322[illegible]

FORMULATION - OIL CONDITION - OIL CONTAMINATION

OIL FORMULATION														
SAMPLE	DATE	SAMPLE ID	FLUID BRAND	FLUID TYPE	FLUID WEIGHT	FLUID CHANGE	FILTER	740	SP	OXID	SOL	INT	2-WAY	IS
					15W-40	Y	Y	76.9	7	17	19	9	N	N
22-Mar-18		T010-48088-0322												

Oil Cleanliness

OIL CLEANLINESS				
SAMPLE	SAMPLE ID	FLUID CHANGE	FILTER CHANGE	PQI
DATE		Y	Y	5
22-Mar-18	T010-48089-0322			

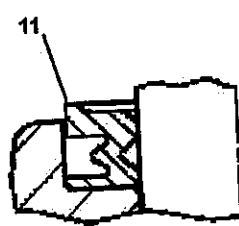
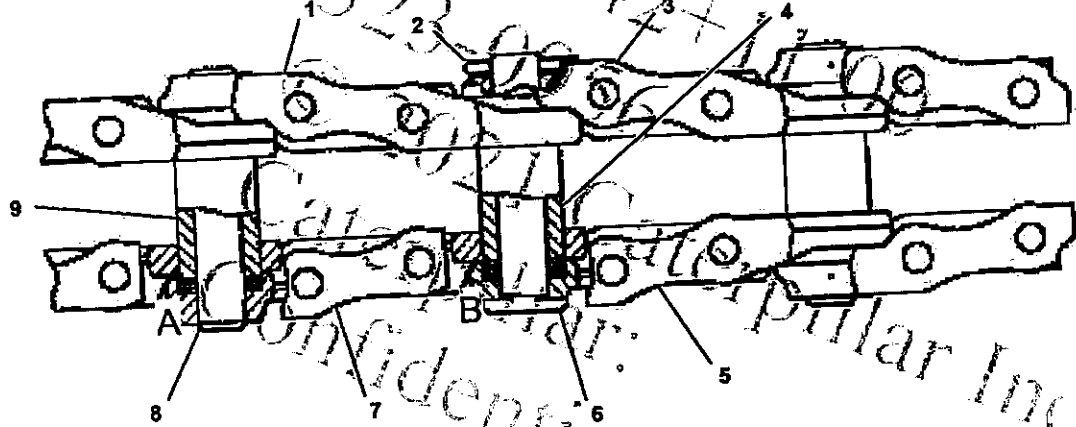
Al = Aluminum, B = Boron, Ca = Calcium, Cd = Cadmium, Co = Cobalt, Cr = Chromium, Cu = Copper, Fe = Iron, Hg = Mercury, K = Potassium, Li = Lithium, Mn = Manganese, Mo = Molybdenum, Ni = Nickel, Pb = Lead, Pt = Platinum, Si = Silicon, Sn = Tin, Ti = Titanium, V = Vanadium, V40 = Viscosity@40°C, W = Water, Zn = Zinc

Percent Fuel Content, $PQI = \text{Particle Quantifying Index}$, $PQ = \text{Lead}$, $SI = \text{Sulfur}$

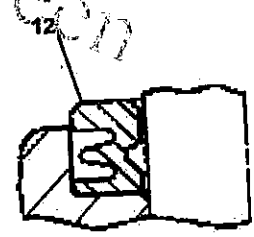
... or a component thereof.

Notice: This analysis is intended as an aid in predicting mechanical wear, not guaranteeing it.

PPS-000A50DE
2021/11/23
22:40:42+1



VIEW OF AREA A



VIEW OF AREA B

Confidential Green
Pillar Inc.

Tax Invoice

00001607

Invoice To:

MIBUS BROS EARTHMOVING
 80 Portland Nelson Rd
 PORTLAND VIC 3305

Invoice Date: 2/09/2024
Reference:
Invoice Number: 00001607
Customer Order Number: MBO37640
Terms: Prepaid

QTY	ITEM CODE	DESCRIPTION	Unit Price	Disc %	TOTAL (ex-GST)
0.49	PG40	Induction Hardened 4140 40mm @ 9.9kg/m Machine 2 pins @ 145mm Long, C=30,D=11	\$1,214.29		\$595.00
4	B50g40g40	Machine 1 pin @ 200mm Long, C=30,D=11 Bushing, @ 0.21 kg	\$64.00		\$256.00
1	FR-T	Freight Via TNT Road Express	\$54.00		\$54.00

P409

COPY

Payment with order. Thank you.

RETURN POLICY

Goods will not be accepted for credit without prior approval. Claims will not be recognised after 30 days. A restocking fee will apply to all returns.

WARRANTY

Does not apply to items on the invoice unless specified.

NOTE: All items remain property of KSet Engineering & Manufacturing Pty Ltd until invoice has been paid in full.

Subtotal:	\$905.00
GST:	\$90.50
Total (inc-GST):	\$995.50
Paid to Date:	\$0.00
Balance Due:	\$995.50

PAYMENT DETAILS

Bank: Commonwealth Bank
 Account Name: KSet Engineering & Manufacturing Pty Ltd
 BSB: 062 815 Account Number: 1065 2694
 Please reference Invoice Number on payment and email remittance to: a
 We also accept payment by Mastercard or Visa
 ABN: 13 673 811 759

Commonwealth Bank
 KSET ENGINEERING & MANUF
 34 Glenwood Dr
 THORNTON
 THORNTON NSW 2322
 Australia
 MERCHAND COPY
 TIME 22:39:00
 02/09/24 08:20
 424608000407
 CR(M)
 AUD 995.50
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