

RADIATOR

E480-56112-9008
LABEL#: 258412050

RECEIVED DATE: 22-Apr-26

EQUIP NUM: 33-2018

SERIAL NUMBER: RJG01396

CAT D10T

 No Action RequiredInterp By: Tracy Jones
Interpreted On: 23-Apr-26

RESULTS ARE NORMAL FOR LEVEL 1 COOLANT. CONTINUE NORMALLY SCHEDULED SAMPLING.

SAMPLE INFORMATION

	20-Apr-26	07-Apr-25	11-Oct-24	10-Nov-23
Sampled Date	20-Apr-26	07-Apr-25	11-Oct-24	10-Nov-23
Sample Id	E480-56112-9008	E480-55099-9022	E480-54289-9021	E480-53319-9017
Lab Date	22-Apr-26	09-Apr-25	15-Oct-24	15-Nov-23
Meter [Hr]	30020	29447.0	29328	28692.0
Comp Meter [Hr]			29328	
Meter On Fluid	30020.0	29447.0	29328.0	28692.0
Fluid Brand				
Fluid Weight				
Fluid Type				
Fluid Change	N	N	U	U
Filter Change	N	N	U	N
Total Fluid Added	0	0	0	0

PREVIOUS SAMPLE

RESULTS ARE NORMAL FOR LEVEL 1 COOLANT. CONTINUE NORMALLY SCHEDULED SAMPLING.

For additional sample history, go to: [S.O.S WEB](#)

ADDITIONAL CHARACTERISTICS

	20-Apr-26	07-Apr-25	11-Oct-24	10-Nov-23
REFRACTIVE INDEX				
GL Glycol (%)	47	47	46	46
FP Freeze Point (°C)	-34	-34	-32	-32
BP Boil Point (°C)	106	106	106	106
pH ASTM D1287				
pH pH	8.0	8.6	7.6	8.1

CORROSION LEVELS/ CHEMISTRY

	20-Apr-26	07-Apr-25	11-Oct-24	10-Nov-23
NITRITE (ppm)				
NO2 Nitrite	602	802	302	602

CONDUCTIVITY (µS/cm)

	20-Apr-26	07-Apr-25	11-Oct-24	10-Nov-23
CON Conductivity	4106	4092	3956	3874

PHYSICAL CHARACTERISTICS

	20-Apr-26	07-Apr-25	11-Oct-24	10-Nov-23
PHYSICAL				
Color Color	orange	orange	orange	orange
App Appearance	clear	clear	clear	clear
Odor Odor	norm	norm	norm	norm
Oil Oil	none			
Foam Foam	norm	norm	norm	norm
PAmnt Precip Amount	none	none	none	none

Wheeler



WHEELER MACHINERY CO. - 4901 W. 2100 S Salt Lake City, UT 84120 USA

PHONE: 801-974-0511

Web: www.wheelercat.com Email: oilab@wheelercat.com

TRANSMISSION POWER

SHIFT

E480-56112-4042

LABEL#: 258412121

SAMPLE SHIP TIME (days) : 2

RECEIVED DATE: 22-Apr-26

EQUIP NUM: 33-2018

CAT D10T



No Action Required

ALL METAL READINGS ARE STABLE RESAMPLE AT NEXT RECOMMENDED INTERVAL

SERIAL NUMBER: RJG01396

Interp By: Tracy Jones
Interpreted On: 23-Apr-26

SAMPLE INFORMATION

Sampled Date	20-Apr-26	06-Apr-26	29-Jul-25	11-Oct-24
Sample Id	E480-56112-4042	E480-56098-3029	E480-55213-3014	E480-54288-5040
Lab Date	22-Apr-26	08-Apr-26	01-Aug-25	14-Oct-24
Meter [Hr]	30020	29934.0	29518.0	29328
Comp Meter [Hr]				29328
Meter On Fluid	86.0	4465.0	4049.0	3859.0
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	30	30	30	30
Fluid Type	DELO 400	DELO 400	DELO 400	
Fluid Change	N	Y	U	U
Filter Change	N	Y	U	U
Kidney Loop				U
Total Fluid Added	0	0	0	0

WEAR LEVELS / ADDITIVES

	20-Apr-26	06-Apr-26	29-Jul-25	11-Oct-24
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu Copper	8	7	18	14
Fe Iron	7	7	12	9
Cr Chromium	0	0	0	0
Al Aluminum	2	1	2	2
Pb Lead	0	2	1	3
Sn Tin	0	0	0	0
Si Silicon	4	4	5	7
Na Sodium	2	1	2	1
K Potassium	14	8	6	10
Mo Molybdenum	49	35	22	28
Ni Nickel	1	0	0	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0

PREVIOUS SAMPLE

UNKNOWN HOURS ON OIL ALL METAL READINGS ARE WITH IN TREND AND STABLE ADDITIONAL CAP TEST SHOWED VISIBLE MAGNETIC METAL AND DEBRIS INSPECT SYSTEM CHECK SEALS AND BREATHERS CHECK MAGNETIC DRAIN PLUG OIL AND FILTER CHANGED WOULD LIKE TO MONITOR RESAMPLE AT HALF INTERVAL TO VERIFY CONDITION

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION / CONTAMINATION

	20-Apr-26	06-Apr-26	29-Jul-25	11-Oct-24
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	11.4	10.5	11.1	11.4

INFRARED (UFM) ASTM E2412

ST Soot	0	0	0	0
OXI Oxidation	6	6	5	5
SUL Sulfate By-Product	13	12	13	13
	13	12	13	13
NIT Nitration	3	3	4	4

WATER

W Water	N	N	N	N
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ANTIFREEZE

A Antifreeze	N	N	N	N
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Wheeler

WHEELER MACHINERY CO. - 4901 W. 2100 S Salt Lake City, UT 84120 USA

PHONE: 801-974-0511

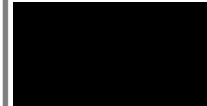
Web: www.wheelercat.com Email: oilab@wheelercat.com

FINAL DRIVE REAR

RIGHT

E480-56112-4040

LABEL#: 258412081



RECEIVED DATE: 22-Apr-26

EQUIP NUM: 33-2018

CAT D10T

 **No Action Required**

ALL METAL READINGS ARE STABLE RESAMPLE AT NEXT RECOMMENDED INTERVAL

SERIAL NUMBER: RJG01396

Interp By: Tracy Jones

Interpreted On: 23-Apr-26

SAMPLE INFORMATION

	20-Apr-26	06-Apr-26	11-Oct-24	18-Jul-23
Sample Date	20-Apr-26	06-Apr-26	11-Oct-24	18-Jul-23
Sample Id	E480-56112-4040	E480-56098-3031	E480-54288-5043	E480-53206-4001
Lab Date	22-Apr-26	06-Apr-26	14-Oct-24	25-Jul-23
Meter [Hr]	30020	29934.0	29328	28174.0
Comp Meter [Hr]			29328	
Meter On Fluid	86.0	1760.0	1154.0	1401.0
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	50	50	50	50
Fluid Type				
Fluid Change	N	Y	U	Y
Filter Change	N	NA	U	NA
Kidney Loop			U	
Total Fluid Added	0	0	0	0

WEAR LEVELS / ADDITIVES

	20-Apr-26	06-Apr-26	11-Oct-24	18-Jul-23
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]				
Cu Copper	0	1	0	0
Fe Iron	12	47	30	60
Cr Chromium	0	0	0	0
Al Aluminum	1	1	1	1
Pb Lead	1	2	2	2
Sn Tin	0	0	0	0
Si Silicon	23	22	24	22
Na Sodium	2	1	1	6
K Potassium	221	0	1	50
Mo Molybdenum	11	6	6	4
Ni Nickel	1	0	0	0
-	0	0	0	0

PREVIOUS SAMPLEALL METAL READINGS ARE WITH IN TREND AND STABLE OIL CHANGED
CONTINUE TO SAMPLE AT NEXT RECOMMENDED INTERVALFor additional sample history, go to: [S.O.S WEB](#)**CONDITION / CONTAMINATION**

	20-Apr-26	06-Apr-26	11-Oct-24	18-Jul-23
VISCOSITY (CENTISTOKES) ASTM D445				
V100 Viscosity at 100 C	17.4	16.3	16.8	17

INFRARED (UFM) ASTM E2412

ST Soot	0	0	0	0
OXI Oxidation	6	6	6	6
SUL Sulfate By-Product	13	13	14	14
Sulfur Products	13	13	14	14
NIT Nitration	4	4	4	4

WATER

W Water	N	N	N	N
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FINAL DRIVE REAR LEFT

EQUIP NUM: 33-2018

SERIAL NUMBER: RJG01396

E480-56112-4037

LABEL#: 258412093

CAT D10T



Action Required

Interp By: Tracy Jones
Interpreted On: 23-Apr-26

IRON IS HIGH FOR THE AMOUNT OF HOURS ON OIL POSSIBLE GEAR WEAR INSPECT SYSTEM CHANGE OIL RESAMPLE AT HALF INTERVAL TO VERIFY CONDITION

SAMPLE INFORMATION

Sampled Date	20-Apr-26	06-Apr-26	11-Oct-24	18-Jul-23
Sample Id	E480-56112-4037	E480-56098-3030	E480-54288-5042	E480-53207-3033
Lab Date	22-Apr-26	08-Apr-26	14-Oct-24	26-Jul-23
Meter [Hr]	30020	29934.0	29328	28174.0
Comp Meter [Hr]			29328	
Meter On Fluid	86.0	1760.0	1154.0	1401.0
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	50	50	50	50
Fluid Type				
Fluid Change	N	Y	U	Y
Filter Change	N	NA	U	NA
Kidney Loop			U	
Total Fluid Added	0	0	0	0

WEAR LEVELS / ADDITIVES

		20-Apr-26	06-Apr-26	11-Oct-24	18-Jul-23
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	0	0	0	0
Fe	Iron	118	146	87	58
Cr	Chromium	1	1	1	0
Al	Aluminum	1	1	1	1
Pb	Lead	1	2	2	1
Sn	Tin	0	0	1	0
Si	Silicon	21	26	23	21
Na	Sodium	3	2	2	5
K	Potassium	338	1	4	50
Mo	Molybdenum	7	7	13	5
Ni	Nickel	1	0	0	0
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Mn	Manganese	1	2	1	1
Cd	Cadmium	0	0	0	0
Ca	Calcium	3238	4060	3663	3134

PREVIOUS SAMPLE

IRON IS ELEVATED POSSIBLE GEAR WEAR INSPECT SYSTEM OIL CHANGED
RESAMPLE AT HALF INTERVAL TO VERIFY CONDITIONFor additional sample history, go to: [S.O.S WEB](#)

CONDITION / CONTAMINATION

		20-Apr-26	06-Apr-26	11-Oct-24	18-Jul-23
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	18	16	16.2	17

INFRARED (UFM) ASTM E2412

ST	Soot	0	0	0	0
OXI	Oxidation	5	6	6	6
SUL	Sulfate By-Product	14	13	13	14
	Sulfur Products	14	13	13	14
NIT	Nitration	4	4	4	4

WATER

W	Water	N	N	N	N
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Wheeler



WHEELER MACHINERY CO. - 4901 W. 2100 S Salt Lake City, UT 84120 USA

PHONE: 801-974-0511

Web: www.wheelercat.com Email: oilab@wheelercat.com

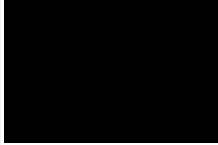
ENGINE

EQUIP NUM: 33-2018

SERIAL NUMBER: RJG01396

E480-56112-4032

LABEL#: 258275442



CAT D10T

Monitor Compartment



86 HOURS ON OIL? POTASSIUM AND ALUMINUM IS AN ADDITIVE IRON IS ELEVATED FROM TREND FOR THE AMOUNT OF HOURS ON OIL POSSIBLE VALVE TRAIN, LINER PISTON AND GEAR WEAR INSPECT SYSTEM CUT OPEN FILTER WOULD LIKE TO MONITOR RESAMPLE AT HALF INTERVAL TO VERIFY CONDITION

Interp By: Tracy Jones

Interpreted On: 23-Apr-26

SAMPLE INFORMATION

Sampled Date	20-Apr-26	06-Apr-26	29-Jul-25	22-Jul-25
Sample Id	E480-56112-4032	E480-56098-3027	E480-55213-3013	E480-55210-6059
Lab Date	22-Apr-26	08-Apr-26	01-Aug-25	29-Jul-25
Meter [Hr]	30020	29934.0	29518.0	29503
Comp Meter [Hr]				29503
Meter On Fluid	86.0	416.0	71.0	56.0
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	10W-30	10W-30	10W-30	10W-30
Fluid Type	DELO 600	DELO 600	DELO 600	DELO 600
Fluid Change	N	Y	Y	N
Filter Change	N	Y	Y	N
Kidney Loop				U
Total Fluid Added	0	0	0	0

WEAR LEVELS / ADDITIVES

		20-Apr-26	06-Apr-26	29-Jul-25	22-Jul-25
ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]					
Cu	Copper	2	5	6	5
Fe	Iron	17	43	10	6
Cr	Chromium	1	1	0	0
Al	Aluminum	12	12	11	10
Pb	Lead	0	0	0	0
Sn	Tin	1	3	1	2
Si	Silicon	6	2	2	1
Na	Sodium	3	5	7	7
K	Potassium	347	316	305	312
Mo	Molybdenum	1223	1154	1105	1060
Ni	Nickel	1	0	0	0

PREVIOUS SAMPLE

POTASSIUM AND ALUMINUM IS AN ADDITIVE ALL METAL READINGS ARE WITH IN TREND AND STABLE FOR THE AMOUNT OF HOURS ON OIL ADDITIONAL CAP TEST SHOWED VISIBLE MAGNETIC METAL AND DEBRIS INSPECT SYSTEM CHECK AIR FILTER AND INTAKE CHECK MAGNETIC DRAIN PLUG OIL AND FILTER CHANGED WOULD LIKE TO MONITOR RESAMPLE AT HALF INTERVAL TO VERIFY CONDITION

For additional sample history, go to:

[S.O.S WEB](#)

CONDITION / CONTAMINATION

		20-Apr-26	06-Apr-26	29-Jul-25	22-Jul-25
VISCOSITY (CENTISTOKES) ASTM D445					
V100	Viscosity at 100 C	11.3	10.9	11.2	11

TBN	Total Base Number	6.9	5.8	7.4	7.4
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INFRARED (UFM) ASTM E2412

ST	Soot	16	30	8	4
OXI	Oxidation	22	22	22	22
SUL	Sulfate By-Product	23	22	25	25
NIT	Nitration	6	8	6	6

WATER

W	Water	N	N	N	N
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