

Fe

625

Date

06/06/2015

Hours Unit

Comp

Changed

Oil

8265

8265

500

Ν



A.B.N. 711 434 76626

Brisbane: (07) 3246 6222 Fax (07) 3270 5579 Newcastle: (02) 4028 5800 Fax (02) 4028 5855 (08) 9351 0564 Fax (08) 9351 0473 Perth:

email: cms@komatsu.com.au

World Welding Jodie Hudson **PO BOX 1808**

MT ISA QLD 4825

Process Date: 12/06/2015

Unit No **WW25**

World Welding Customer

Serial No 79616488 Site MT ISA

Compartment Differential Rear

Make **KENWORTH**

T659 Model

Sample Date: 6/06/2015 Lab ID: 2015061210231 Card No: 216096

Analyst: Micheal Finucan

Elements - Parts Per Million (ppm)

Physicals **Particles** Consumption PQ Pb Cr ΑI Si Κ Zn Ca В ISO Soot Oxi Nit Sul V40 Water KF Fuel TAN TBN Oil Cu Na Mo Mg 38 5 53 157 295 < 0.1 <1 1 3 179 8 1 8 356 21 315 0

Evaluation Oil Information Recommendation Aluminium & Silicon may indicate a degree of dirt/dust, causing Make: . Recommend monitor mag.plugs for wear debris & investigate all possible dirt entry increased wear rates as seen in Iron & PQ index (ferrous debris). points (seals, gaskets or breathers). All information on repairs is greatly appreciated. Type: ? Have any repairs been carried out recently? Consider changing out the oil to remove contaminants and decrease rates of wear. Grade: 85W140

Normal Query Caution Action Critical





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World Welding Jodie Hudson PO BOX 1808

MT ISA QLD 4825

Unit No WW25

Customer World Welding

Serial No 79616488 Site MT ISA

Compartment Differential Rear

Make KENWORTH

Model T659

Sample Date: 25/08/2015 Lab ID: 2015082510330 Analyst: Robert Cowley

			E	Elemen	ts - Pa	rts Per	Million	ı (ppm)								Parti	cles					Phy	sicals				Consu	mption	
Dat 25/08/		Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	ISC	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hou		842	<1	2	5	35	178	2	6	1	49	8	328	21	153		357					306	<0.1					0	Query
Unit	9000					_															_								Caution
Comp	9000						<u>aluatio</u>								rmation							comme							Action
Oil				on car							,		Make:				Recomme												
		1		ecreas	_	•				ears to	still be	9	Type:				leaks. Insp							debri	ıs & sar	nple a	t half th	ne next	Critical
Changed	Y	effect	ing the	eresults	s for Iro	on, Chr	omium	& PQ I	ndex.				Grade	e: 85W	140		service int	ervais t	o moni	itor fur	tner an	a trena							
													II .																
Dat 06/06/		Fe	Pb	Cu	Cr	AI	Si	Na	К	Мо	Mg	Zn	Р	Са	В	ISC	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
	/2015	Fe 625	Pb <1	Cu 1	Cr 3	AI 38	Si 179	Na 5	K 8	Mo 1	Mg 53	Zn 8	P 356	Ca 21	B 157	ISC) PQ 315	Soot	Oxi	Nit	Sul		Water <0.1	KF	Fuel	TAN	TBN	Oil 0	Normal Query
06/06/	/2015 urs			Cu 1						Mo 1	-		<u>'</u>	-		ISC		Soot	Oxi	Nit	Sul			KF	Fuel	TAN	TBN	Oil 0	
06/06/ Hou Unit	/2015 urs 8265	625	<1	1	3	38 Ev	179	5 on	8	1	53	8	356	21 Oil Info		ISC		Soot	Oxi	Nit			<0.1		Fuel	TAN	TBN	Oil 0	Query Caution
06/06/ Hou Unit Comp	/2015 urs 8265 8265	625 Alumi	<1	1 Silico	3 n may	38 Evention indicates	179 valuation	5 on gree of	8 dirt/du	1 st, cau	53 using	8	356	21 Oil Info	157		315	end mor	nitor ma	ag.plu	Rec	295 comme	<0.1	n nvestiç	gate all	possik	ble dirt	0 entry	Query Caution Action
06/06/ Hou Unit	/2015 #rs 8265 8265 500	625 Alumi	<1	1	3 n may	38 Evention indicates	179 valuation	5 on gree of	8 dirt/du	1 st, cau	53 using	8	356	21 Oil Info	157		315	end mor	nitor ma	ag.plu	Rec	295 comme	<0.1	n nvestiç	gate all	possik	ble dirt	0 entry	Query Caution

Maintenance/Service Register

Unit No	Desc	Make	Model	Year	Vin	Eng No	Rego	
WW25	Kenworth	Kenworth	T659	20	013 6F5000000DA448777	79616488	874VFZ	
	Transmission	Eaton	Ultra Shift plus					_
Filters	Oil	Air	Spinner	Fuel	Fuel/Water Seperator	Transmission	Crank Case Filter	OBSOLET
	LF9070	AF887KM	596HE Oil Centrifuge	FF2200	FS19729	HF6107	CV5063400/ 4312013 Fleetguard	FS19763
	7						_	
Oil	Engine Type	Gear Type	Diff Type	Transfer Type	Hydraulic Type	Hydraulic	Fuel - New System	
	CJ4 ratio		80W/90	SIN50		RTF50D10B OF	133-5673 CAT	
						HF35209		
Uni	PN 5-676X Type 1810							

	WAR TOTOLOGY		
Date 2 Dos	WORK PERFORMED Brown & Hurley -	Completed By Brown & Hurley	295228
			293228
	Mount Side Lights Repair Air - Repair Fire Extinguisjer Bracket, Fit Mirror Back Lights	WWATS NS WWATS NS	
		John G	
	Fit Light Bars, Change Hoses Air Lines		
	Repair intake pipe bracket, belt tensioner (ordered)	John G	
	Replace Clutch, Rear Engine Seal (Cummins), Spigot Beearing, Flywheel reconc, Uni Joint Rear Diff,	laha C	
	Replace Fan Belt Tensioner	John G	
	Check Gearbox & Diffs, King Pins, Front Hubs, Bins & Lids	John G	
	Fit Mud Guard Pipe, grease & Check all oils	Cam	1
	Fit New Hydrasulic Fittings	Cam	
	Service - Change Filters (Less 1 Air)	Cam	
	Move Kingpin	Cam	1
	Computer Check Gearbox operations - Fault Code 71 status inactive - Clutch Callibration & Adjust	QTC	
	Unblock Brake Valves & AC inspection	QTC	
	12 sets Brake Pads replaced, new tensioner belt & belt, adjusted brakes	John G	
	Rebuild Fan Clutch, Adjust Bonnet & Fit Rubber to bonnet	John G	
15/01/2015	Investigate Belt Squeal		
15/01/2015	Replace Fuel Hose & Oil Hoses	Enzed	
17/01/2015	Fit new bearing in AC Idler Pulley	John G	
16/01/2015	Fix Lights	Matty Box	
19/01/2015	Clear Transmission Fault	John G	-
20/01/2015	Change Radiator Hose		-
31/1/15 to 5/2/1	Front Diff - Fit New Diff Centre & Through Shaft Ebaring, Fit 1 x New Uni at front diff & replacce light plug	John G	
1/02/2015	Relocate Batteries	John G	
21/02/2015	Service - Change Filters	WWATS NS	
23/02/2015	Temp repairs to Air Bag - Fit New Valve @ George Fisher	John G	
27/02/2015	250hr service, check wheel bearings, king pins, Change Diff Oils, Fit new fan hub & Radiator support rubbers	John G	
28-Feb	Fit Circlips & Washers to Slack Adjusters	John G	
2-Mar	Change Bearings in AC Idler Pulley & Tensioner, Fit New Fan Belt	John G	
4-Mar	Fit New Shiort Belt & Ideler Pulley on AC	John G	<u> </u>
9/03/2015	8 x Driver Tyres - Ogreen AG598 - 349200	Beaureapirs	
6-Mar	Service Air Driers & Water Extractors	John G	
7-Mar	Replace Cab Air Bags & Rear Engine Mounts	John G	
9/03/2015	Cab Air Bag Electrical Fault - Code 71	John G	

18/06/2015 Fix Bolt on Chassis and Suspension, Grease & Check over under b onnet 20/06/2015 Toolbox Mount & Bracket 20/06/2015 250 hr Service - Filters and Fluids Diff Oil Levels & gearbox Oil levels 24/06/2015 Grease & Check John G 27-Jun Grease & Check John G 4/07/2015 Drive Tyres GT368 Good Tyres WWATS 4/207/2015 T50hr Service (Oil,Air,Fuel Filters- Grease , Brake Adjust & Check - Change Front Diff Oil, New Bug Deflector WWATS 4/207/2015 Grease & Check John G 10/07/2015 Grease & Check John G 11/07/2015 Grease & Check John G 12/07/2015 Adjust Pinion Bearing, End Float, Fab Spanner & Yoke Puller, Fit New Yoke Seal & Uni, Grease Check King Pins & Whee John G				T
1900/2005 largic or Compressor TX Yoline Restore Dror 2000/2005 largic filter Dilling Corrected 2000/2005 largic filter Statistics of Local Statistics of Local Statistics Corrected 2000/2005 largic filter Statistics Corrected Particle Filter & Door 2000/2005 largic filter More filter Statistics Correct Statistics Corrected Particle Filter & Door 2000/2005 largic filter Statistics Correct Local Statistics Corrected Particle Filter & Door 2000/2005 largic filter Statistics Correct Local Statistics Corrected Particle Filter & Door 2000/2005 largic filter Statistics Corrected Particle Filter & Door 2000/2005 largic filter Correcting Particle Filter Particle Filter & Door 2000/2005 largic filter Correcting Particle Filter Filte	13/03/2015	Repair Air Line	John G	
19/03/2013 Replace Compressor 11 Valve Recent Orer 28/03/2013 Replace Compressor 12 Valve Recent Orer 28/03/2013 Replace State Orer Sta WASS SURPR Codes 38/03/2013 Replace State Check all wheel locatings - To 2 x add lights 28/03/2013 Replace State Motor, Check Lights State orer State St	15/03/2015	Electrical Fault	M Ford	
3400,7005 Paul Filter O Bing Connected 28,007,005 Rose Drives to WW25 \$12890 class 28,007,005 Rose Drives to MW25 \$12890 class to Rose Rose Rose Rose Rose Rose Rose Ros	16/03/2015	Service, replace cab shocky	WWATS	
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2001/2015 New Dirwin is WWX5 30285 Colds Troy 2001/2015 Ceremed Through & Treates Cries & all wheel bearings - Fix 2 x sole lights Coldinary Color of Col	24/03/2015	Fuel Filter O Ring Corrected	Cummins	
2001/2005 Grassed Trucks & Trailers Chevs all wheel bearings - Tis 2 is size lights Fadde 7,04,7005 Cummins replace Paul internal Particle Piller & Boson Cummins SubSSQ7554bers 5,043,7005 Beginse Starter Motor, Owek Light, Sationery Burn, Fall furnitable Dahn G 6,044,7005 Beginse Starter Motor, Owek Light, Sationery Burn, Fall furnitable Dahn G 6,044,7005 Beginse Trainer Comming And Check Lights Dahn G 6,044,7005 Beginse Trainer Comming Motor as a required Present Dahn G 6,044,7005 Beginse Trainer Comming Motor as a required Present 6,044,7005 Beginse Trainer Comming Motor as a required Present 6,044,7005 Begins Writing to Commission Coll Pressure Sonder Ourself Piller 7,044,7005 Begins Writing to Commission Coll Pressure Sonder Ourself Piller 7,044,7005 Begins Writing to Commission Coll Pressure Sonder Ourself Piller 7,044,7005 Begins Writing to Commission Coll Pressure Sonder Ourself Piller 7,044,7005 Begins Piller Sonder Dahn G 7,044,7005 Begins Piller Sonder Pressure Sonder Ourself Piller 7,044,7005 Begins Piller Sonder Dahn G 7,044,7005 Begins Piller Sonder Pressure Sonder Ourself Piller 7,044,7005 Begins Piller Sonder Piller Piller Piller 7,044,7005 Begins Piller Piller Piller Piller Piller 7,044,7005 Begins Piller Piller Piller Piller Piller 7,044,7005 Begins Piller Piller Piller Piller Piller 7,045,7005 Begins Piller Piller Piller Piller Piller 7,045,7005 Begins Piller Piller Piller Piller Piller Piller 7,046,7005 Begins Piller Piller Piller Piller Piller Piller Piller 7,046,7005 Begins Piller Piller Piller Piller Piller Piller Piller 7,046,7005 Begins Piller Piller Piller Piller Piller Piller Piller 7,046,7005 Begins Piller Piller P			Trov	
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504/2015 Replace Starter Motor, Check Lights, Sustionary Burn, Fix Turntable 604/2015 Replace Fuse for Light Rax, Check Lights 4,04/2015 SERGICT - Regain Air Leaks & Check XI Shifter 4,04/2015 SERGICT - Regain Air Leaks & Check XI Shifter 4,04/2015 Replace Lingues Contrillage States as required 6,04/2015 Replace Lingues Contrillage States as required 7,04/2015 Replace Mining to Cranksase pressure Sensor 7,04/2015 States States - 250 Holding 7,04/2015 Replace Trong Linguis Contrillage States 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender, regain binder writing 7,04/2015 Pit New Transmission Oil Pressure Sender view problems 7,04/2015 Pit New Transmission Oil Pressure View Pit View Pit New Transmission Oil Pressure View Pit View Pi				260520/7546hrs
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2/05/2015 Fit new Horton Fan filter - refit mudguard binn G 6/05/2015 Fit new Horton Fan filter - refit mudguard binn G 6/05/2015 Fit SR7 Brake Valve - Rotate front tyres, repair electrical faults at Front LH Bonnett Pivot binn G 11/05/2015 Replace Batteries, Check Electrocal Fault WWATS 11/05/2015 Replace Batteries, Check Electrocal Fault WWATS 11/05/2015 Garth Lead Alternator to Starter Motor replaced Cava 14/05/2015 Gorbon Mount Starter Motor replaced Cava 14/05/2015 Journal Modify Toolbon Mount John G 18/05/2015 Modify Toolbon Mount John G 18/05/2015 Modify Toolbon Mount John G 18/05/2015 Mell Light Wiring replace and replace no plate light 20/05/2015 Replace Front Diff Centre - Cntre Bearing & Drive Shaft 22/05/2015 Replace Front Diff Centre - Cntre Bearing & Drive Shaft 22/05/2015 Replace Front Diff Centre - Cntre Bearing & Drive Shaft 31/05/2015 Fit Air Line & Tarp, 30/05/2015 Fit Air Line & Tarp, 30/05/2015 Fit New Tail Shaft - Grease & Check all components 40/05/2015 Fit New Tail Shaft - Grease & Check all components 40/05/2015 Fit New Tail Shaft - Grease & Check all components 40/05/2015 Fit New Tail Shaft - Grease & Check Wheel bearings, Brakes, Fix Air Leaks, Change Turntable 60/05/2015 Clean Turntable 60/05/2015 Clean Turntable 60/05/2015 Clean Turntable 60/05/2015 Fit Bolt on Chassis and Suspension, Grease & Check over under b onnet 20/05/2015 Fit Bolt on Chassis and Suspension, Grease & Check over under b onnet 20/05/2015 Follook Mount & Bracket 20/05/2015 Follook Mount & Bracket 30/05/2015 Fit Service - Filters and Fluids Diff Oil Levels & gearbox Oil levels 40/05/2015 Fit Service - Filters and Fluids Diff Oil Levels & gearbox Oil levels 40/05/2015 Fit Service - Filters and Fluids Diff Oil Levels & gearbox Oil levels 40/05/2015 Fit Service - Filters and Fluids Diff Oil Levels & gearbox Oil levels 40/05/2015 Fit Service - Filters and Fluids Diff Oil Levels & Gearbox Oil levels 40/05/2015 Fit Service - Filters and Fluids Diff Oil Levels & Gearbox Oil levels 40/05/2015 Fit Service - Filters and Flu	28/04/2015	Fit new Mudguard	John G	
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4/07/2015 750hr Service (Oil,Air,Fuel Filters- Grease , Brake Adjust & Check - Change Front Diff Oil, New Bug Deflector 8/07/2015 Grease & Check 10/07/2015 Grease & Check John G 12/07/2015 Adjust Pinion Bearing, End Float, Fab Spanner & Yoke Puller, Fit New Yoke Seal & Uni, Grease Check King Pins & Whee John G	27-Jun	Grease & Check	John G	
8/07/2015 Grease & Check 10/07/2015 Grease & Check John G 12/07/2015 Adjust Pinion Bearing, End Float, Fab Spanner & Yoke Puller, Fit New Yoke Seal & Uni, Grease Check King Pins & Whee John G	4/07/2015	Drive Tyres GT368 Good Tyres	WWATS	423908
10/07/2015 Grease & Check John G 12/07/2015 Adjust Pinion Bearing, End Float, Fab Spanner & Yoke Puller, Fit New Yoke Seal & Uni, Grease Check King Pins & Whee John G	4/07/2015	750hr Service (Oil,Air,Fuel Filters- Grease , Brake Adjust & Check - Change Front Diff Oil, New Bug Deflector	WWATS	
12/07/2015 Adjust Pinion Bearing, End Float, Fab Spanner & Yoke Puller, Fit New Yoke Seal & Uni, Grease Check King Pins & Whee John G	8/07/2015	Grease & Check	cam	
	10/07/2015	Grease & Check	John G	
14/07/2015 Engine light On - Low Power - Fuel System Check & Replace Filter, Check Intake piping Cummins 43297	12/07/2015	Adjust Pinion Bearing, End Float, Fab Spanner & Yoke Puller, Fit New Yoke Seal & Uni, Grease Check King Pins & Whee	John G	
	14/07/2015	Engine light On - Low Power - Fuel System Check & Replace Filter, Check Intake piping	Cummins	432970

		, ,	
18/07/2015	Fault Find Auto, remove output shaft speed sensors & Check, Remove Driveshaft & output yoke from gearbox and check tone wheel, remove housing & remove broken speed sensor & refit	John G	
19/07/2015	Wiring Harness Checvks, Remive Air Lines from compressor to air driers	John G	
	Yoke & Gearbox, Uni and Tailshaft, Fit New Trnasmission harness, X-Y Shifter & ECU, Check Tone Wheel Fit New Seal, Repair Short in Reverse Alarm	WWATS	434653.7
23/07/2015	Fit New Bonnet Latch	John G	
1/08/2015	Replace Bolts on Mud Guards	Steve	
	Service & change all four rear shockies	Cam	
	Repair Beeper Reverse Fault	M Howearth	
	Check ECM Fit & Reprogram ECM & Remove old	John G	
9/08/2015	Repair Spotlilght Wiring, Replace RH Ride Height Valve & Adjust Height,	John G	
	8 x Driver Tyres - Good Tyres 368 - 448193		448193
	Weld up cracked mounting brackets on DPF Filter	M Howearth	
	Check Engine, Check & Grease Driveline	John G	
	-	M Howearth	
	Replace LHS Air Bag on Front Diff & RH Side Air Bag on Rear Diff		
	Wheel Alignment	Murphys	
	500 Hour Service		457919
26/08/2015	Change Drive Tyre POS 7		459186.8
2/09/2015	Fit New Cab Air Bag	John G	
2/09/2015	Windscreen	Roger Locke	
4/09/2015	8 Drives LM305	Eddie	465895
0 (00 (00 -	Fit new safety Straps aroung shock absorbers, New Dfrive Tyres, Replace rear Diff Oil, Repalce RH High Beam Lenses, Repair Park Lights, Dissassemble LHS Front Hub - inspect and adjust bearings, replace hub seal & gasket, replace top radiator hose to engine, grease truck, Replace Cab Air Bag, Fit New Pins and Bushews to turntable & grease, Adjust		
	Front Brakes	M Howearth	465817
	Service as per service sheet	M Howearth	470208
16/09/2015	Recon Fan Hub		
18/09/2015	Replace Broken Exhaust Flex pipe	M Howearth	475292
26/09/2015	Maintenance - Check Bearings & Change Tyres	M Box	
26/09/2015	Services as per service sheet	M Howearth	480703
28/09/2015	Spot Light Bracket repaired		
1/10/2015	8 x Drives GT 328		483690
3/10/2015	Replace Cracked Pan Hard Support on LHS engine, Replace Cab ride height control valve	M Howearth	483695
7/10/2015	Grease Driveline & Checks	John G	
12/10/2015	Replace Engine Rear mounts, rotate steers	John G	
29/10/2015	Replacer Cab Mounts	John G	
13/11/2015	250 Hour Service, Adjust Brakes, Lights, Grease, Check King Pin & Steering, Check Driveline	John G	
14/11/2015	Fit New Cab Shocky	John G	
20/11/2015	Check & grease Driveline	John G	
28/11/2015	Fit new Air bag pos 5, fit new power divider piston, grease & check	John G	
3/12/2015	Fix Mudguards	Cam	
4/12/2015	Replacce LH Front Hub Seal & inspect brake drum. Adjust front brake shoes		
	Replace LH Front Hub Seal, Replace Front Mudflaps, Replace Rear Mud Guards, Remove Bottom Dust Covers, Remove		
	Meter Reads		503258
	Fit New Water pump 3684450 & seals	M Howearth	555250
10,01,2010			





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World Welding Jodie Hudson PO BOX 1808

MT ISA QLD 4825

Unit No WW25

Customer World Welding

Serial No 79616488 Site MT ISA

Compartment Diesel Engine

Make KENWORTH

Model T659

Sample Date: 6/06/2015 Lab ID: 2015061210213 Analyst: Robert Cowley

		E	Elemen	ıts - Pa	rts Per	Millior	n (ppm)					u.			Particles						Physicals				Consu	ımption	
Date 06/06/2015	Fe	Pb	Cu	Cr	AI	Si	Na	K	Мо	Mg	Zn	Р	Ca	В	ISO	PQ	Soot	Oxi	Nit	Sul	V100 Water	KF	-uel	TAN	TBN	Oil	Normal
Hours	37	3	1	1	2	3	8	1	33	748	1065	908	1088	<1		20	206	20	14	33	14.6 <0.1		0			2	Query
Unit 8265													O'LL-6							D.							Caution
Comp 8265	A II 4 =	-1 1	la i a la la la la			aluatio					4.41	Make		rmation						Re	commendatio	n					Action
Oil 265		sts on t	nis sar	npie aj	opear a	accept	abie, c	ontinue	e to sa	mpie a	ttne																Critical
Changed Y	norm	al rate.										Type		10													Cilicai
Changeu												Grad	e: 15W	40													
Date 14/05/2015	Fe	Pb	Cu	Cr	AI	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	ISO	PQ	Soot	Oxi	Nit	Sul	V100Water	KF	uel	TAN	TBN	Oil	Normal
14/05/2015 Hours	Fe 34	Pb 3	Cu 1	Cr	AI 1	Si 3	Na 5	K <1	Mo 38			'	Ca		ISO	PQ 18	Soot 200	Oxi 19	Nit	Sul 31	V100 Water	KF	Fuel 0	TAN	TBN	Oil 0	Query
14/05/2015 Hours Unit 8000		Pb 3	Cu 1	Cr 1	1	3	5					996	1073	2						31	14.5 <0.1			TAN	TBN		Query Caution
14/05/2015 Hours	34	3	1	1	1 Ev	3	5 on	<1	38	692	1059	996	1073 Oil Info			18	200	19	13	31 Re	14.5 <0.1	n		TAN	TBN		Query
14/05/2015 Hours Unit 8000 Comp 8000	34 Soot	3 appear	1 rs high	1 er thar	1 Ev	3 valuation	5 on does no	<1 ot appe	38 ar to b	692 e effec	1059 eting	996 Make	1073 Oil Info	2		18	200	19	13	31 Re	14.5 <0.1	n		TAN	TBN		Query Caution Action
14/05/2015 Hours Unit 8000	34 Soot	3 appear	1 rs high	1 er thar	1 Ev	3 valuation	5 on does no	<1 ot appe	38 ar to b	692 e effec	1059 eting	996 Make Type:	1073 Oil Info	2 ormation		18	200	19	13	31 Re	14.5 <0.1	n		TAN	TBN		Query Caution





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World Welding Jodie Hudson PO BOX 1808

MT ISA QLD 4825

Unit No WW25

Customer World Welding

Serial No 79616488 Site MT ISA

Compartment Diesel Engine

Make KENWORTH

Model T659

Sample Date: 18/07/2015 Lab ID: 2015082510313 Analyst: Robert Cowley

			Е	lemen	ıts - Pa	rts Per	Million	n (ppm)								Partic	cles	.0. 20/0	0,2010	Ou	u 110. 2		sicals				Consu	mption	
Date 18/07/2015	5	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	ISO	PQ	Soot	Oxi	Nit	Sul	V100	Wateı	KF	Fuel	TAN	TBN	Oil	Normal
Hours Unit 900		33	3	1	1	2	3	5	<1	38	715	1094	943	1170	1		21	156	19	13	30	14.7	<0.1		0			0	Query Caution
Comp 900						E۱	, aluatio	on						Oil Info	rmatio	n					Red	comme	endatio	n					
Oil 25 Changed Y	50		elemer					loes no nue sai				9	Make Type: Grade		40		As a prec	aution ir	nspect	air inle	t syste	m for r	estricti	ons.					Action Critical
Date 06/06/2015	5	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	ISO	PQ	Soot	Oxi	Nit	Sul	V100	Wateı	KF	Fuel	TAN	TBN	Oil	Normal
Hours		37	3	1	1	2	3	8	1	33	748	1065	908	1088	<1		20	206	20	14	33	14.6	<0.1		0			2	Query Caution
Unit 826						F۱	⊥ ⁄aluatio	n n						Oil Info	rmatio	n					Red	comme	endatio	n n					
Comp 826		All tes	ts on t	his sar	nple ar			able, c	ontinu	e to sai	mple a	t the	Make		matio						1101	JOITHING	ridatic						- Action
Oil 26		norma	al rate.			•					•		Type:																Critical
Changed Y													Grade	e: 15W	40														
Date 14/05/2015	5	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	ISO	PQ	Soot	Oxi	Nit	Sul	V100	Wateı	KF	Fuel	TAN	TBN	Oil	Normal
Hours	_ [34	3	1	1	1	3	5	<1	38	692	1059	996	1073	2		18	200	19	13	31	14.5	<0.1		0			0	Query
Unit 800	00																												Caution
Comp 800		<u> </u>					/aluatic	200			,,		Make	Oil Info	rmatio							comme							Action
Oil 25	50							does no nue sai				ting	Make: Type:			—— [}]	As a prec	aution ir	spect	air inle	t syste	m tor r	estricti	ons.					Critical
Changed Y		interva		it i coui	is at tir	13 11116	. Conti	iiuc sai	nping	atrion	IIGI			: e: 15W	40														Citiodi
													3.000																





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World Welding

Matthew

8-10 KOLONGO CRESCENT

MT ISA QLD 4825

Unit No WW25

Customer World Welding

Serial No 79616488 Site MT ISA

Compartment Diesel Engine

Make KENWORTH

Model T659

Analyst: Micheal Finucan

		_					, ,									rocess Date	e: 2/10/	/2015	Car	d No: 2						_			
			=lemer	its - Pa	rts Per	Millior	n (ppm))							Par	ticles					Phy	/sicals	<u> </u>			Consu	mption		
Date 26/09/2015	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V100	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours	36	3	1	1	2	3	7	<1	43	740	1141	959	1170	3			20	191	19	14	31	14.8	<0.1		0			0	Query
Unit 9979					Г	/aluatio							Oil Info	rmatia						Do		endatio							Caution
Comp 9979	All te	sts on t	his sar	nnle ar	opear a			ırther n	nonitor	at the	next	Make		malio	11					Red	COMMIN	endalic	ווע						Action
Oil 250	samp		ino oai	npio a _l	opoui c	юоори	abio, ic		10111101	at tillo	110At	Type:																	Critical
Changed Y												Grade	e: 15W4	40															
Date	Fe	Pb	Cu	Cr	AI	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V100	Water	KF	Fuel	TAN	TBN	Oil	
22/08/2015		. ~		Ŭ.				.``		9		ļ .				100		0001		1410	- Cui	V 100	, , , , , , ,			., ., .,		O	Normal
Hours	27	2	1	1	1	3	5	1	45	766	1127	967	1169	2			18	152	17	12	28	14.7	<0.1		0			0	Query
Unit 9500																													Caution
Comp 9500						/aluatio							Oil Info	rmatio	n					Red	commo	endatio	, n						Action
Oil 250	Read	ings a	ppeara	accept	able, s	ample	at the r	next sc	hedule	ed inte	val.	Make																	
Changed Y	-											Type:	·? e: 15W4	10															Critical
onangea 1												Grade	e. 1500 ²	+0															
Date	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V100	Water	KF	Fuel	TAN	TBN	Oil	Normal
18/07/2015	33	3	1	1	2	3	5	<1	38	715	1094	0/13	1170	1			21	156	19	13	30	14.7	<0.1		0			0	Query
Hours	. 33	3	'	'	_	3	3	`	30	/ 13	1094	943	1170	'			21	130	19	13	30	14.7	CO. 1		0			U	•
Unit 9000					F\	aluatio	n n						Oil Info	rmatio	n					Red	comm	endatio	nn						Caution
Comp 9000	Soot	appea	rs to re	main e	elevate			ot appe	ar to b	e effec	cting	Make		mano		As a preca	ution ir	nspect a	air inle										Action
Oil 250					is time						Ū	Туре:	?			·		•											Critical
Changed Y	interv	als.										Grade	e: 15W4	40														=	
Date	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	\/100	Water	KF	Fuel	TAN	TBN	Oil	
06/06/2015		וו	Lu		_ ^ _	JI	iva		IVIO	ivig	411		Ca	<u> </u>	LI	190	ru	3000	UXI	INIL	Sui	VIUC	vvalel	IXI	i uel	I AIN	1011	Oil	Normal
Hours	37	3	1	1	2	3	8	1	33	748	1065	908	1088	<1			20	206	20	14	33	14.6	<0.1		0			2	Query
Unit 8265	<u> </u>																												Caution
Comp 8265						aluation	-						Oil Info	rmatio	n					Red	comm	endatio	on						Action
Oil 265		sts on t al rate.	his sar	nple a	ppear a	accept	able, c	ontinu	e to sa	mple a	t the	Make Type:				1													Critical
Changed Y	Hom	ai iale.											<u>:</u> e: 15W4	10															Cillical
Jarigoa												Grade	5. IJVV ²	10															



Fe

383

Date

06/05/2015

Hours



A.B.N. 711 434 76626

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World Welding Jodie Hudson **PO BOX 1808**

MT ISA QLD 4825

Unit No **WW25**

World Welding Customer

Serial No 79616488 Site MT ISA

Compartment Differential Front

Make **KENWORTH**

T659 Model

Sample Date: 6/05/2015 Lab ID: 2015061210230

Analyst: Micheal Finucan

Elements - Parts Per Million (ppm)

Physicals Particles Consumption PQ V40 Water KF Pb Cr ΑI Si Κ Zn Ca В ISO Soot Oxi Nit Sul Fuel TAN TBN Oil Cu Na Mo Mg 2 3 5 27 3 352 < 0.1 19 4 64 6 <1 2 215 28 187 0

Unit 8265 Evaluation 500 Comp (note: limited sample history limits accuracy of diagnosis) Readings Oil 500 appear to be satisfactory, keep sampling at the normal rate Changed Ν

Oil Information Make: . Type: ? Grade: 85W140

Recommendation As this appears to be the first sample received for this component, please sample at half the regular interval to further establish a wear trend.

Normal Query Caution Action Critical





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World Welding Jodie Hudson PO BOX 1808

MT ISA QLD 4825

Unit No WW25

Customer World Welding

Serial No 79616488 Site MT ISA

Compartment Differential Front

Make KENWORTH

Model T659

Sample Date: 25/08/2015 Lab ID: 2015082510329 Analyst: Robert Cowley

			E	Elemer	ıts - Pa	rts Per	Millior	n (ppm)								Partic	eles					Phy	sicals				Consu	mption	
Date 25/08/2		Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	ISO	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hou		686	4	30	6	4	69	2	6	1	2	24	221	29	7		225					358	<0.1					0	Query
Unit Comp	9000					E۱	/aluatio	on .							rmatio	า					Red	comme	ndation	า					Caution Action
Oil	2000 Y							ned init onitor f			od,		Make: Type: Grade		140														Critical
Date 06/05/2		Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Са	В	ISO	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hou	rs	383	2	19	4	3	64	5	6	<1	2	27	215	28	3		187					352	<0.1					0	Query
Unit Comp	8265 500	(note:	limite	dsamr	l le histr		 /aluatio	n on oracy of	diagn	neie) R	eading	2	Make:		rmatio		As this ap	nears to	he the	firet e		comme			mnone	nt nle	250 52	mnle at	Caution Action
Oil Changed	500							ng at th				-	Type:	?			nalf the re								пропе	rit, pie	uso sa	πρισαι	Critical





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World Welding

Matthew 8-10 KOLONGO CRESCENT

MT ISA QLD 4825

Unit No WW25

Customer World Welding

Serial No 79616488 Site MT ISA

Compartment Differential Rear

Make KENWORTH

Model T659

Sample Date: 26/09/2015 Lab ID: 2015100210150 Analyst: Micheal Finucan

			Е	lemen	ıts - Pa	rts Per	Million	ı (ppm)								Par	rticles					Phy	sicals				Consu	mption		
Date 26/09/20	15	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours		240	<1	1	1	8	51	2	2	<1	17	11	192	9	51	<1		144					382	<0.1					0	Query
	979						/aluatic	\						Oillofa	rmatio	n					Por	comme	ndotio	n						Caution
Comp 99	979	All tes	sts on t	his sar	nple ar			able, ke	eep sa	mplina	to furth	ner	Make:		iiiialio						Rec	omme	Hualiu	11						Action
	500	monite						,		, 3			Type:	?																Critical
Changed	Υ												Grade	e: 85W	140															
Date 25/08/20	15	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours		842	<1	2	5	35	178	2	6	1	49	8	328	21	153			357					306	<0.1					0	Query
Unit 9	000																													Caution
	000		•		1 4		/aluatic	200		0.011		-211	Make:		rmatio	n	<u> </u>					comme			./.	0 1		-11		Action
Oil 12	235							s. Alum st whic				••••	Туре:				Recomme Inspect ma													Critical
Changed	Υ							& PQ		041010	oun bo		, ,	e: 85W	140		intervals to					10000	400.	io a oai	прюч	crian a	iorioxi	001110		Ormodi
					I		1	I	I	1	I	ı		l		I		T .			T									
Date 06/06/20	15	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours	_	625	<1	1	3	38	179	5	8	1	53	8	356	21	157			315					295	<0.1					0	Query
Unit 8	265																													Caution
	265	A I	in i	Ciliaa			/aluatio		al: =4/al.	4			Make:		rmatio	n	Danamana		. ! 4 11 1			comme				l = = = :l	المائلة مالا		a inta	Action
Oil 5	500							gree of PQ ind					Type:				Recomme (seals, gas													Critical
	N				een ca				101) AC		00110).			e: 85W	140		changing											0011010	J	C.i.i.oui
				-				-																						





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World Welding Jodie Hudson PO BOX 1808

MT ISA QLD 4825

Unit No WW25

Customer World Welding

Serial No 79616488 Site MT ISA

Compartment Transmission

Make KENWORTH

Model T659

Sample Date: 6/06/2015 Lab ID: 2015061210209 Analyst: Robert Cowley

			Elemer	nts - Pa	rts Per	Million	າ (ppm)								Parti	icles						Phy	sicals				Consu	mption	
Date 06/06/2015	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	ISC) P	Soc	ot O	xi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours	22	9	2	<1	1	7	4	1	2	895	694	1120	57	62	21/1	14 20		58	3	4	51	129	<0.1					0	Query
Unit 8265 Comp 8265 Oil 500 Changed N		osity ap			stated		other t			•		Make: Type:	: LSA	<mark>rmatio</mark> i		Please	heck a	nd cor	nfirn	n oil ty		c <mark>omme</mark> ake an			uture sa	amples	S.		Caution Action Critical
Date 14/05/2015	Fe	Pb	Cu	Cr	Al	Si	Na	К	Мо	Mg	Zn	Р	Ca	В	ISC	O P	Soc	ot O	xi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours	41	4	2	<1	2	4	4	<1	8	24	61	1032	160	178	21/1	14 20		65	5	6	54	121	<0.1					0	Query
Unit 8000 Comp 8000 Oil 1000		osity ap			stated		esults a					Make:	: LSA	rmatio		Please	heck a	nd cor	nfirn	m oil ty		comme ake an			uture sa	amples	<u> </u> S.		Caution Action Critical
Changed Y		rst sam blish a v			nent. S	ample	e at the	next Sa	arnpie i	ınterva	ıı tO	Type: Grade	? e: 50W																Critical





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World Welding Matthew

8-10 KOLONGO CRESCENT

MT ISA QLD 4825

Unit No WW25

Customer World Welding

Serial No 79616488 Site MT ISA

Compartment Transmission

Make KENWORTH

Model T659

Sample Date: 26/09/2015 Lab ID: 2015100210110 Analyst: Micheal Finucan

		E	lemen	ıts - Pa	rts Per	Millior	ı (ppm)								Par	ticles	,				Phy	sicals				Consu	mption		
Date 26/09/2015	Fe	Pb	Cu	Cr	Al	Si	Na	K	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours	43	7	3	<1	2	8	2	<1	1	787	771	1091	42	54		23/21/14	22		59	4	52	126	<0.1					1	Query
Unit 9979																													Caution
Comp 9979						valuatio							Oil Info	rmatio	n					Red	comme	ndatio	n						Action
Oil 1000	Read	lings ap	pear t	o be sa	itisfact	tory, ke	ep san	npling	at the r	normal		Make:				-													Critical
Changed Y												Type:	: 50W			-													Cilicai
- I I												Orauc	. JOVV															_	
Date 06/06/2015	Fe	Pb	Cu	Cr	Al	Si	Na	K	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours	22	9	2	<1	1	7	4	1	2	895	694	1120	57	62		21/14	20		58	4	51	129	<0.1					0	Query
Unit 8265													011.6																Caution
Comp 8265	Visco	sity ap	noare l	low for		valuatio	~~	acte or	thic c	amplo		Make:	Oil Info	rmatio	n	Please che	ock and	l confir	m oil tu		omme			ituro c	ample	,			Action
Oil 500		ar acce										Type:				i lease che	ock and	COIIII	iii Oii ty	pe, m	ane and	u grac	e ioi iu	itui e s	ample	э.			Critical
Changed N				,								, ,	: 50W															_	
Date 14/05/2015	Fe	Pb	Cu	Cr	Al	Si	Na	K	Мо	Mg	Zn	Р	Ca	В	Li	ISO	PQ	Soot	Oxi	Nit	Sul	V40	Water	KF	Fuel	TAN	TBN	Oil	Normal
Hours	41	4	2	<1	2	4	4	<1	8	24	61	1032	160	178		21/14	20		65	6	54	121	<0.1					0	Query
Unit 8000																													Caution
Comp 8000	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	- 14		l = f =		valuatio			4 - 1		1-1-	Make:	Oil Info	rmatio	n	Discount		C'	!! 4-		omme			4		_			Action
Oil 1000		sity ap										Туре:				Please che	eck and	confir	m oil ty	pe, ma	ake and	a grad	e tor fu	iture s	amples	S.			Critical
Changed Y	1	sı samı ılish a v			iieiil. C	ample	allie	I ICXL Sc	ample	ıııı c ıva	110		: : 50W			-													Cilical
	Losiab	iloi i a v	voui tit	oria.								Grade	. JUVV															_	