



UIN 07BF421

Diesel Engine

Unit No. 1NKDL60X13R970091

Unit:

Make Kenworth

Model T800

Serial No. 1NKDL60X13R970091

Site

Compartment:

Name Diesel Engine

Make Caterpillar

Model C15

Serial No.

Capacity: Ltrs

Customer:

GN CARRIERS LTD

Box 7477

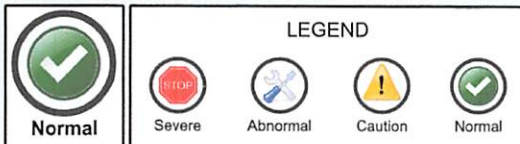
Peace River AB T8S1T1

Canada

DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As oil and filter(s) already changed, resample next service interval to further monitor.

ANALYST: Sam.Smith



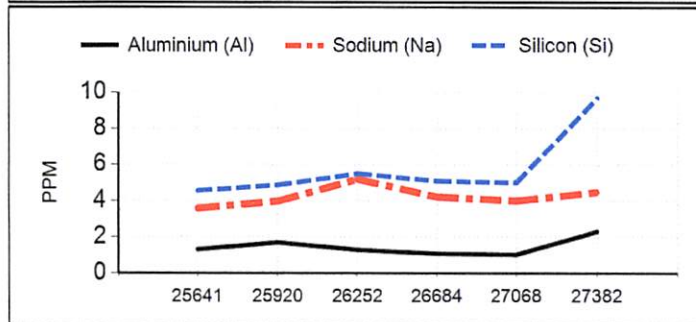
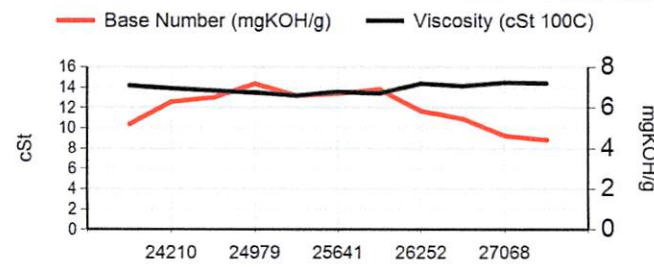
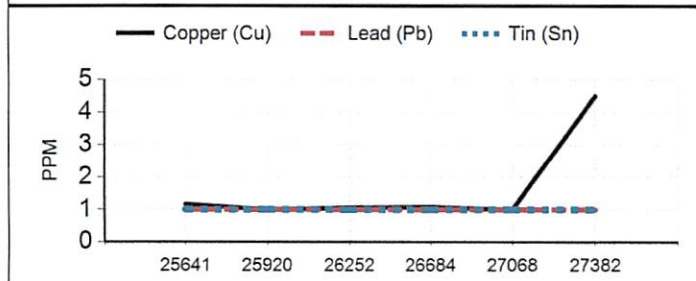
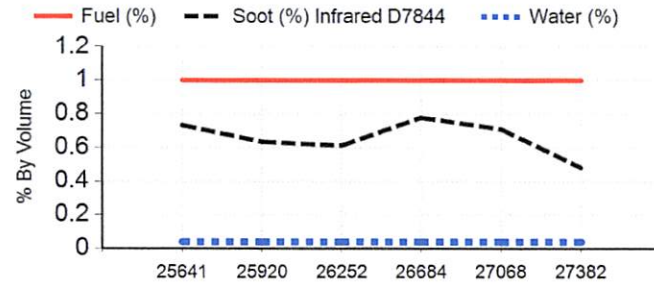
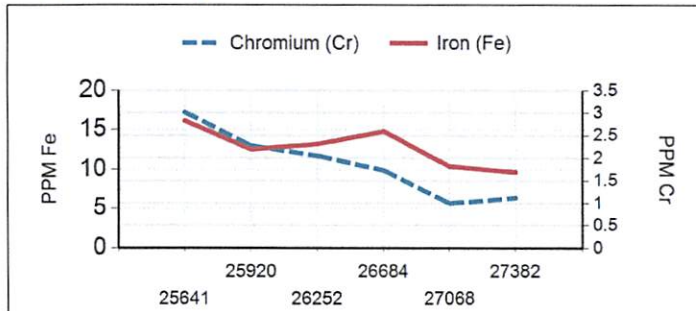
Right Solutions • Right Partner

DATE SAMPLED	05-Mar-26	06-Oct-25	11-Feb-25	28-Jun-24	31-Oct-23	06-Jul-23
DATE RECEIVED	12-Mar-26	23-Oct-25	18-Feb-25	09-Jul-24	03-Nov-23	10-Jul-23
DATE REPORTED	13-Mar-26	27-Oct-25	18-Feb-25	09-Jul-24	06-Nov-23	11-Jul-23
LAB NO.	40210772272	40210739699	40210698184	40210666153	40210630151	40210612154
SIF NO.	707027685	35307196	35307177	35307174	35307168	35307154
TIME ON UNIT	27382	27068	26684	26252	25920	25641
TIME ON OIL	314	384	432	332	279	400
OIL BRAND	Chevron	Chevron	Chevron	Chevron	Chevron	Chevron
OIL TYPE	Unidentified	Unidentified	Unidentified	Unidentified	Unidentified	Unidentified
OIL GRADE	SAE 5W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40
OIL ADDED	2.0					
FILTER	314	384	432	332	279	400
OIL CHANGED	Changed	Changed	Changed	Changed	Changed	Changed
WO NUMBER						
Physical / Chemical						
Base number (mgKOH/g)	4.4	4.6	5.5	5.8	6.9	6.7
Metals (ppm)						
Iron (Fe)	10	10	15	13	13	16
Chromium (Cr)	1	1	2	2	2	3
Lead (Pb)	<1	<1	<1	<1	<1	<1
Copper (Cu)	5	<1	1	1	<1	1
Tin (Sn)	<1	<1	<1	<1	<1	<1
Aluminium (Al)	2	1	1	1	2	1
Nickel (Ni)	<1	<1	<1	<1	<1	<1
Silver (Ag)	<1	<1	<1	<1	<1	<1
Titanium (Ti)	<1	<1	<1	<1	<1	<1
Vanadium (V)	<1	<1	<1	<1	<1	<1
Contaminants (ppm)						
Silicon (Si)	10	5	5	5	5	5
Sodium (Na)	4	4	4	5	4	4
Potassium (K)	5	2	1	<1	1	1
Additives (ppm)						
Magnesium (Mg)	849	745	796	1011	692	808
Calcium (Ca)	1464	1309	1421	1179	1264	1153
Barium (Ba)	<1	<1	<1	<1	<1	<1
Phosphorus (P)	868	690	906	1056	701	843
Zinc (Zn)	946	807	873	989	775	861
Molybdenum (Mo)	15	2	3	25	2	20
Boron (B)	92	67	76	74	78	51
Contaminants						
Water (%)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Coolant	No	No	No	No	No	No
Physical Tests						
Viscosity (cSt 40C)	87.7	89.4	86.9	89.0	102.1	102.6
Viscosity (cSt 100C)	14.4	14.5	14.2	14.4	13.4	13.6
Viscosity Index (D2270)	171	169	169	168	130	132
Fuel (%)	<1	<1	<1	<1	<1	<1
Soot (%) Infrared D7844	0.5	0.7	0.8	0.6	0.6	0.7
PQ Index	<10	<10	<10	13	16	20





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Filter Image

Filter patch test is not performed Contact laboratory for more information

Since services are based on samples and information supplied by others, and since corrective actions, if any, are necessarily taken by others, these services are rendered without any warranty or liability of any kind beyond the actual amount paid to ALS Tribology for the services. Reported recommendations are based on interpretations of the generated test results and historical data. Certain test results appearing in this report may have been tested at other ALS laboratories within the Tribology divisional network.

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TEST METHODS:

Acid Number:	ASTM D974/D664 (*M)
Base Number:	ASTM D4739 (*M)
Base Number (Perchloric):	ASTM D2896B, back (*M)
Fuel Dilution by GC:	ASTM D7593
Fuel Dilution Visc/Setflash	In House
Fuel Soot ATR/IR:	ASTM D7686 (*M)
Soot by FTIR:	ASTM D7844
Glycol:	In House
Metals by ICP AES:	ASTM D5185 (*M)
Ox, NOx, SOx, FTIR:	ASTM E2412/D7418/D7414 D7415
PQ Index:	ASTM D8120 (*M)
Particle Count:	ASTM D7647 (*M) / ISO 4406
Kinematic Viscosity:	ASTM D445 (*M) / D7279 (*M)
Water KF:	D6304 / E203 (*M)
Water Crackle:	In House

*M - Modified Method