MOB LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MACK 75
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (36 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

WEAR

All component wear rates are normal.

CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

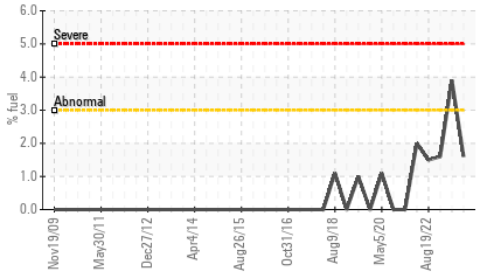
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**PC0083437**	PC0081931	PC0071054
Sample Date		Client Info		**13 May 2024**	21 Sep 2023	17 Feb 2023
Machine Age	kms	Client Info		**1087020**	1051520	1019722
Oil Age	kms	Client Info		**35500**	31798	35589
Filter Age	kms	Client Info		**35500**	31798	35589
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>120	**5**	4	3
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>5	**0**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**2**	2	1
Lead	ppm	ASTM D5185(m)	>40	**0**	1	<1
Copper	ppm	ASTM D5185(m)	>330	**5**	2	3
Tin	ppm	ASTM D5185(m)	>15	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**2**	5	2
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	0
Fuel	%	ASTM D7593*	>3.0	**1.6**	▲ 3.9	1.6
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>4	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**8.3**	7.0	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.5**	19.5	22.2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	2	4
Boron	ppm	ASTM D5185(m)	2	**4**	2	4
Barium	ppm	ASTM D5185(m)	0	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	**59**	57	61
Manganese	ppm	ASTM D5185(m)	0	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	950	**956**	925	986
Calcium	ppm	ASTM D5185(m)	1050	**1047**	1002	1118
Phosphorus	ppm	ASTM D5185(m)	995	**985**	988	1098
Zinc	ppm	ASTM D5185(m)	1180	**1168**	1170	1202
Sulfur	ppm	ASTM D5185(m)	2600	**2478**	2515	2707
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.2**	16.6	16.6
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	**68.7**	▲ 65.3	▲ 83.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	**10.6**	▲ 10.3	▲ 11.9
Viscosity Index (VI)	Scale	ASTM D2270*	144	**142**	144	136

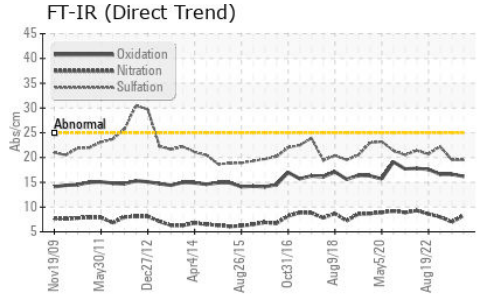
Report Id: ROS35LON [WCAMIS] 02635464 (Generated: 05/16/2024 10:20:32) Rev: 1

Contact/Location: Dave Ross - ROS35LON

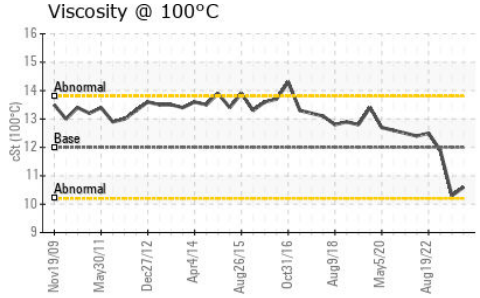
Fuel Dilution



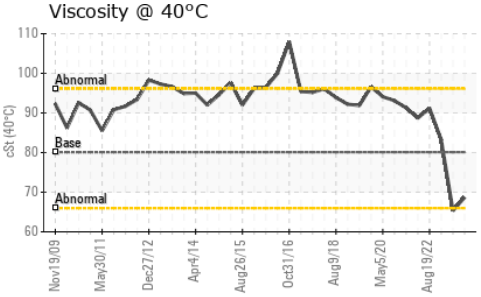
FT-IR (Direct Trend)



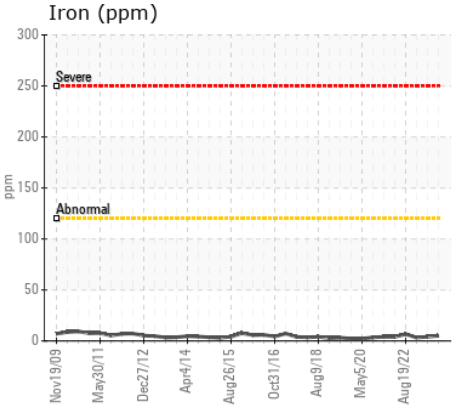
Viscosity @ 100°C



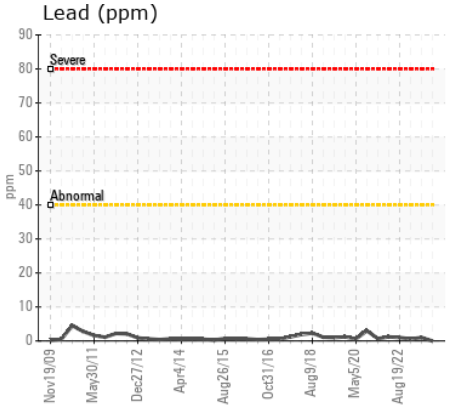
Viscosity @ 40°C



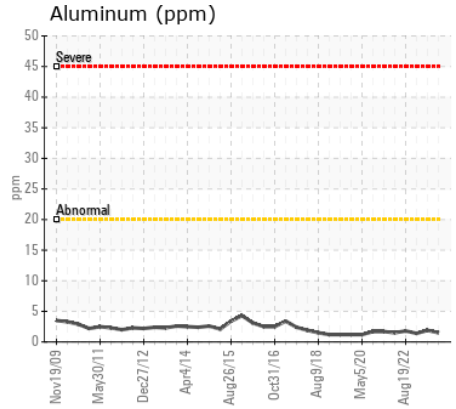
Iron (ppm)



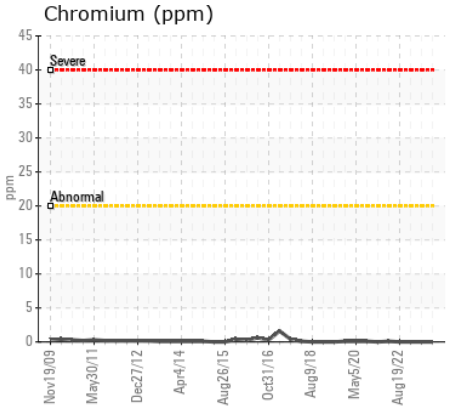
Lead (ppm)



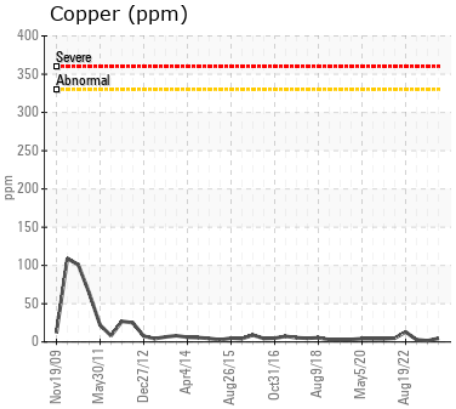
Aluminum (ppm)



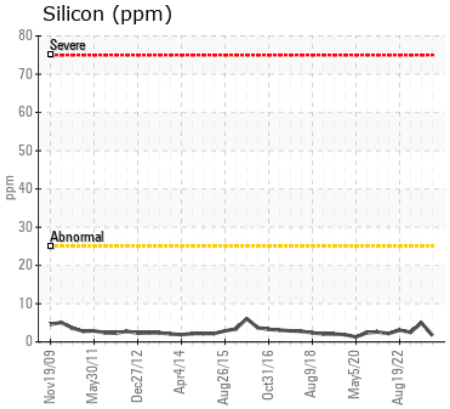
Chromium (ppm)



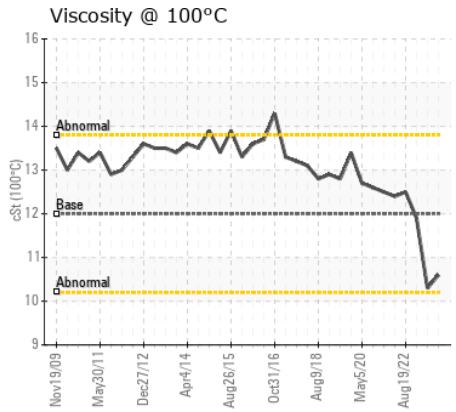
Copper (ppm)



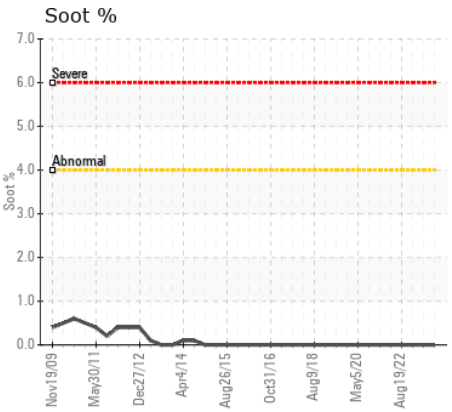
Silicon (ppm)



Viscosity @ 100°C



Soot %



CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083437
Lab Number : 02635464
Unique Number : 5776617
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI)

Received : 15 May 2024
Tested : 16 May 2024
Diagnosed : 16 May 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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