MOB I

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
1370
Component
Rear Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

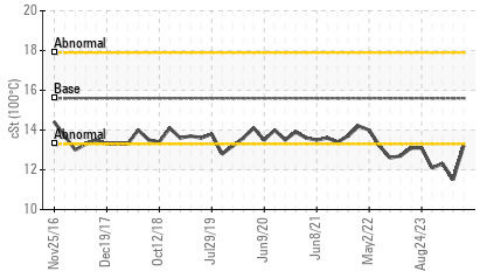
Light fuel dilution occurring.

FLUID CONDITION

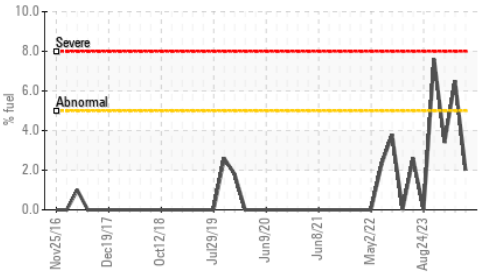
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0932507**	WC0887394	WC0864984
Sample Date		Client Info		**03 May 2024**	19 Dec 2023	16 Oct 2023
Machine Age	hrs	Client Info		**35777**	34865	34408
Oil Age	hrs	Client Info		**508**	500	0
Filter Age	hrs	Client Info		**508**	500	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100	**25**	16	21
Chromium	ppm	ASTM D5185(m)	>20	**1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	**0**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	**2**	2	<1
Lead	ppm	ASTM D5185(m)	>40	**0**	<1	<1
Copper	ppm	ASTM D5185(m)	>330	**2**	1	1
Tin	ppm	ASTM D5185(m)	>15	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**3**	2	3
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	0
Fuel	%	ASTM D7593*	>5	▲ **2**	▲ 6.5	▲ 3.4
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>3	**1.3**	1.1	1.3
Nitration	Abs/cm	ASTM D7624*	>20	**10.1**	10.6	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**25.6**	28.6	30.9
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**2**	2	3
Boron	ppm	ASTM D5185(m)	0	**1**	1	2
Barium	ppm	ASTM D5185(m)	0	**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	**57**	53	55
Manganese	ppm	ASTM D5185(m)	0	**<1**	0	0
Magnesium	ppm	ASTM D5185(m)	1010	**926**	838	842
Calcium	ppm	ASTM D5185(m)	1070	**1025**	958	947
Phosphorus	ppm	ASTM D5185(m)	1150	**930**	826	835
Zinc	ppm	ASTM D5185(m)	1270	**1155**	1009	1031
Sulfur	ppm	ASTM D5185(m)	2060	**2389**	2395	2274
Oxidation	Abs/.1mm	ASTM D7414*	>25	**24.1**	32.2	36.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	▲ **13.2**	▲ 11.5	▲ 12.3

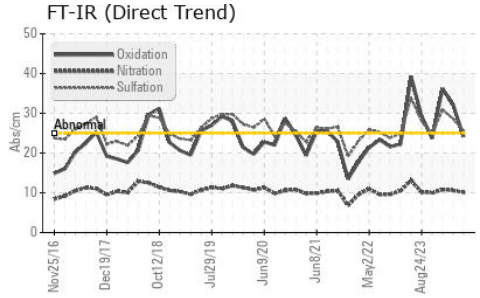
Viscosity @ 100°C



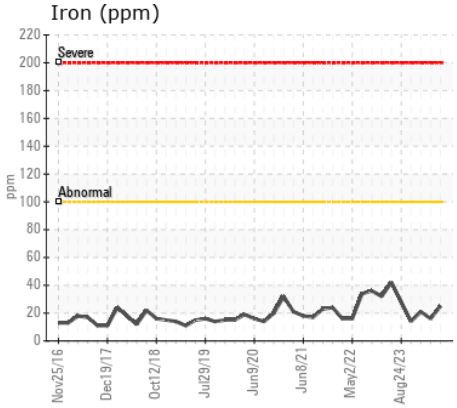
Fuel Dilution



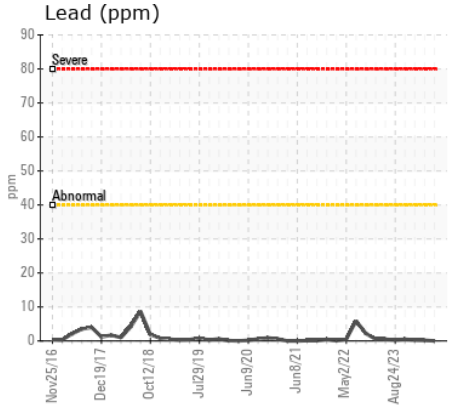
FT-IR (Direct Trend)



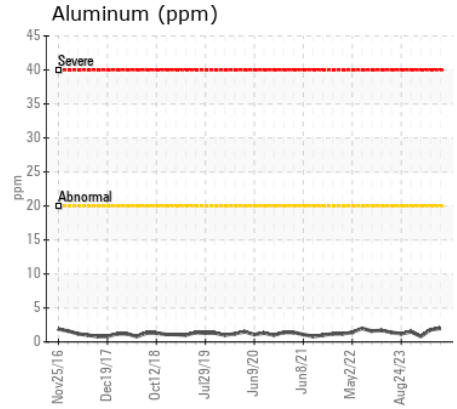
Iron (ppm)



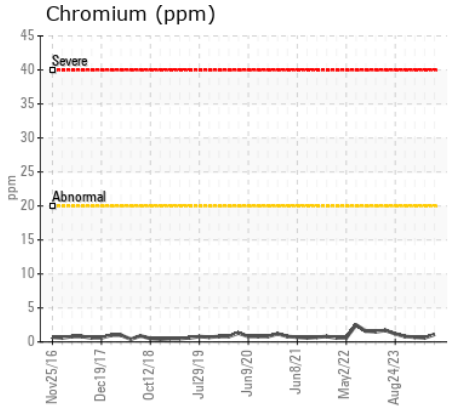
Lead (ppm)



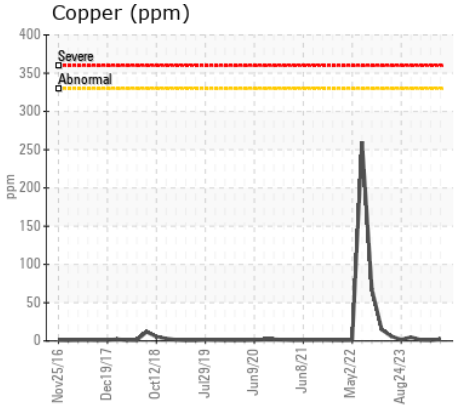
Aluminum (ppm)



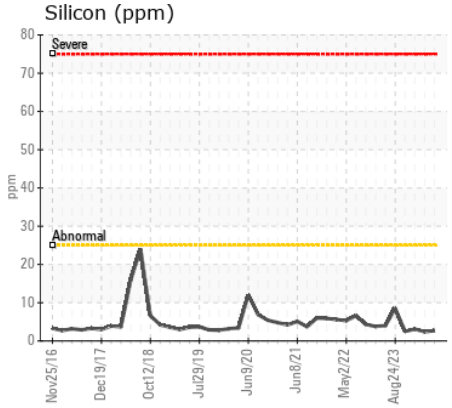
Chromium (ppm)



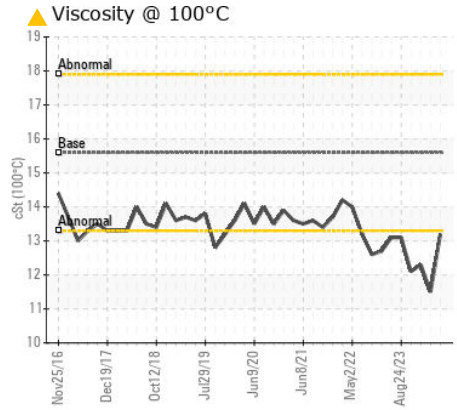
Copper (ppm)



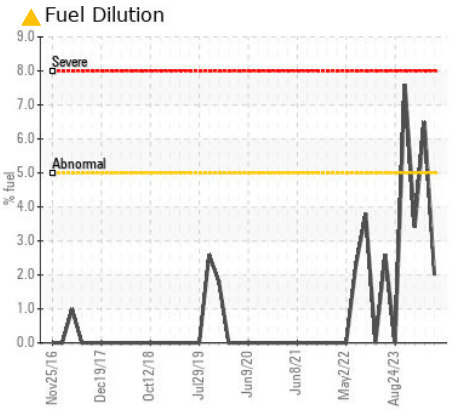
Silicon (ppm)



Viscosity @ 100°C



Fuel Dilution



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0932507 **Received** : 10 May 2024
Lab Number : 02634478 **Tested** : 13 May 2024
Unique Number : 5775631 **Diagnosed** : 13 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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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