MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
901004
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

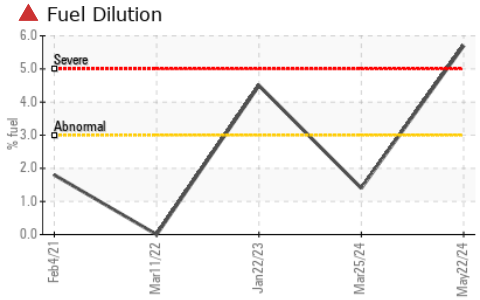
CONTAMINATION

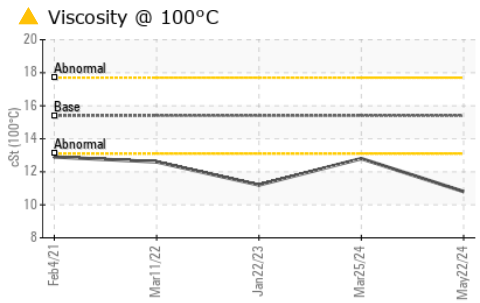
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

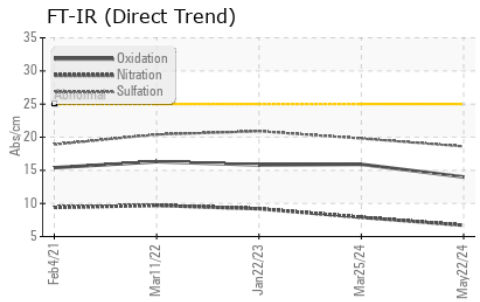
FLUID CONDITION

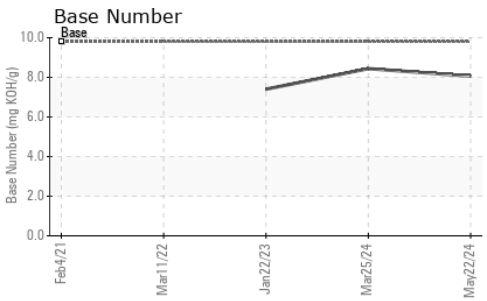
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

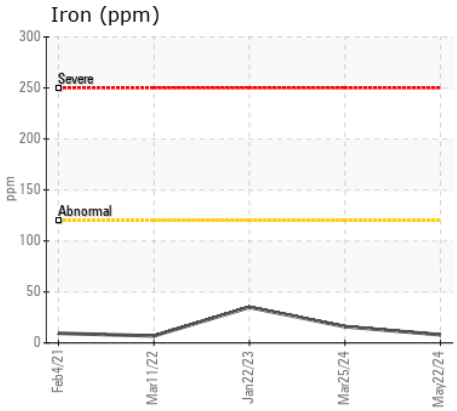
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC956156**	WC956153	WC958656
Sample Date		Client Info		**22 May 2024**	25 Mar 2024	22 Jan 2023
Machine Age	kms	Client Info		**327081**	320954	12009
Oil Age	kms	Client Info		**0**	0	0
Filter Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>120	**8**	16	35
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	<1
Nickel	ppm	ASTM D5185(m)	>5	**0**	0	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**2**	3	6
Lead	ppm	ASTM D5185(m)	>40	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>330	**<1**	2	2
Tin	ppm	ASTM D5185(m)	>15	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**4**	6	8
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Fuel	%	ASTM D7593*	>3.0	▲ **5.7**	1.4	▲ 4.5
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	**6.7**	7.9	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.6**	19.8	20.9
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**3**	5	3
Boron	ppm	ASTM D5185(m)	0	**10**	9	2
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	60	**55**	58	59
Manganese	ppm	ASTM D5185(m)	0	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	**867**	934	946
Calcium	ppm	ASTM D5185(m)	1070	**974**	1027	1070
Phosphorus	ppm	ASTM D5185(m)	1150	**894**	920	1059
Zinc	ppm	ASTM D5185(m)	1270	**1050**	1141	1200
Sulfur	ppm	ASTM D5185(m)	2060	**2197**	2211	2545
Oxidation	Abs/.1mm	ASTM D7414*	>25	**14.0**	15.9	15.8
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	**8.06**	8.44	7.40
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ **10.8**	12.8	▲ 11.2

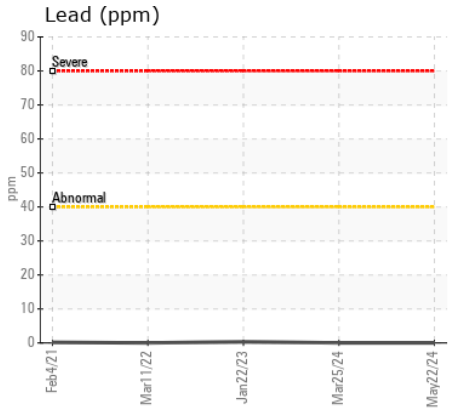


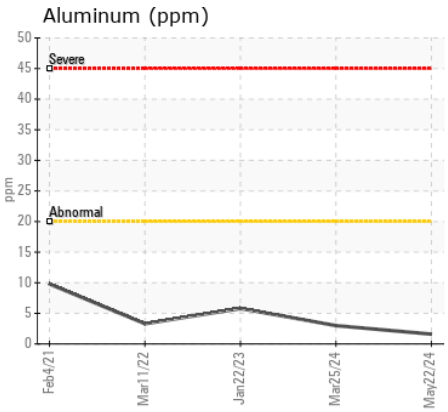


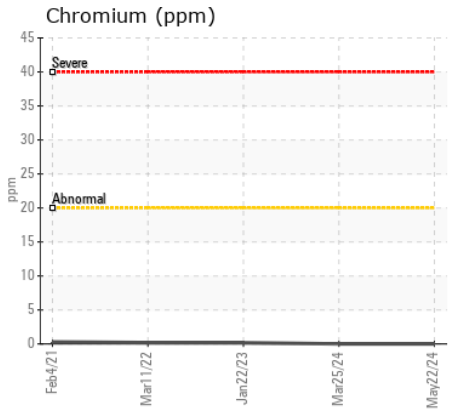


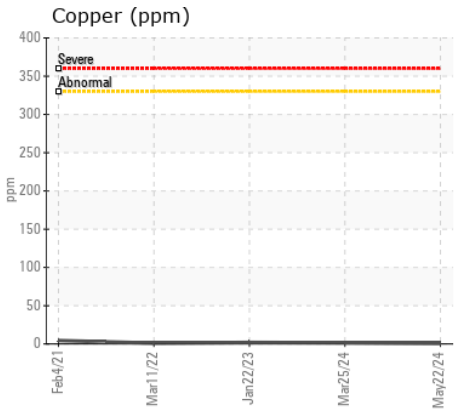


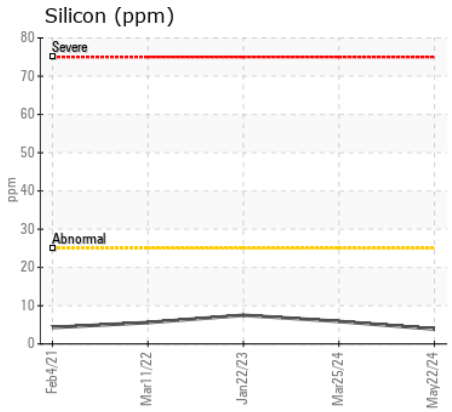


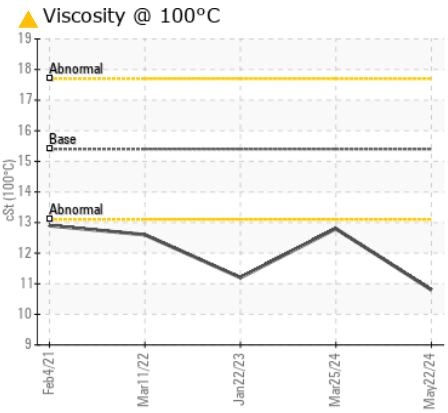


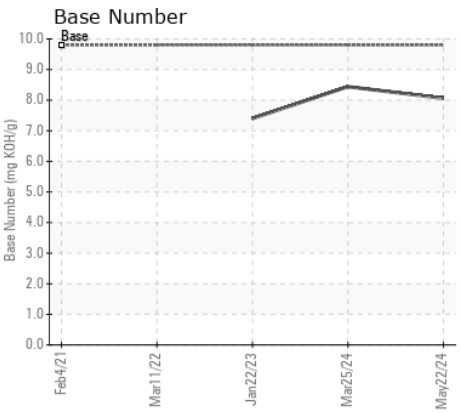












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC956156
Lab Number : 02638366
Unique Number : 5787528
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 30 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.

GFL Environmental - 870 - St John s
19 Harding Road,
St. John`s, NL
CA A1A 5T8
Contact: Angus Molloy
amolloy@gflenv.com
T: (709)739-9302
F: