MOB LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
7802
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

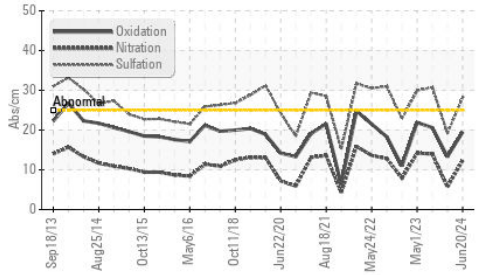
Light concentration of carbon/soot present in the oil. Tests indicate that there is no fuel present in the oil.

FLUID CONDITION

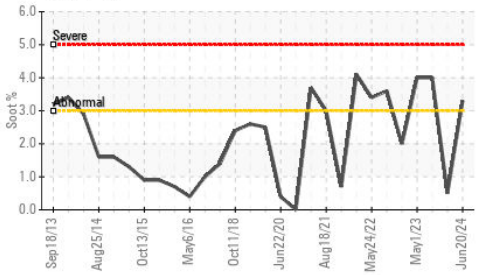
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**GFL0126615**	GFL0116352	GFL0089068
Sample Date		Client Info		**20 Jun 2024**	05 Apr 2024	20 Jul 2023
Machine Age	kms	Client Info		**70614**	67209	56260
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				**ABNORMAL**	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>110	**11**	3	13
Chromium	ppm	ASTM D5185(m)	>4	**<1**	0	1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**1**	<1	1
Lead	ppm	ASTM D5185(m)	>45	**<1**	0	2
Copper	ppm	ASTM D5185(m)	>85	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>4	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>30	**2**	1	3
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	0
Fuel	%	ASTM D7593*	>5	**0.0**	<1.0	0.9
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>3	▲ **3.3**	0.5	▲ 4
Nitration	Abs/cm	ASTM D7624*	>20	**12.3**	5.7	14.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**28.1**	19.2	30.8
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**8**	3	12
Boron	ppm	ASTM D5185(m)	0	**2**	2	2
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	60	**60**	58	60
Manganese	ppm	ASTM D5185(m)	0	**<1**	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	**943**	943	985
Calcium	ppm	ASTM D5185(m)	1070	**1017**	1002	1037
Phosphorus	ppm	ASTM D5185(m)	1150	**980**	984	1048
Zinc	ppm	ASTM D5185(m)	1270	**1177**	1160	1207
Sulfur	ppm	ASTM D5185(m)	2060	**2458**	2557	2442
Oxidation	Abs/.1mm	ASTM D7414*	>25	**19.5**	13.3	20.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	**15.8**	14.7	16.3

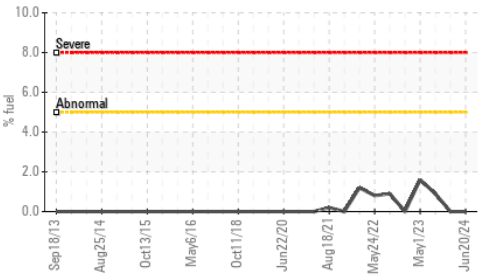
FT-IR (Direct Trend)



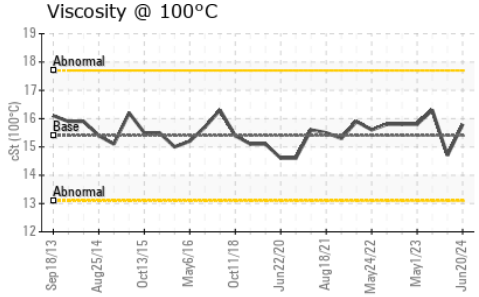
Soot %



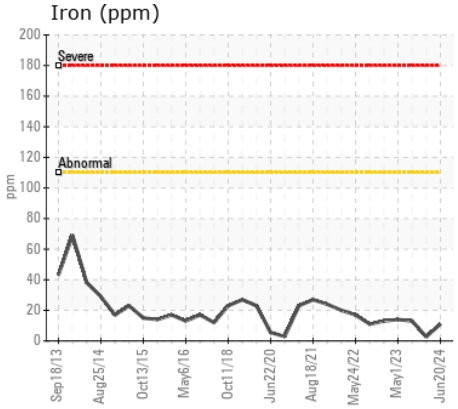
Fuel Dilution



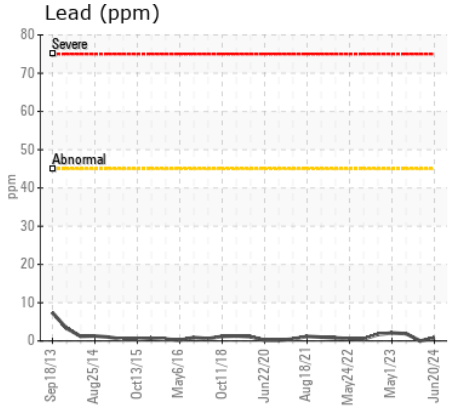
Viscosity @ 100°C



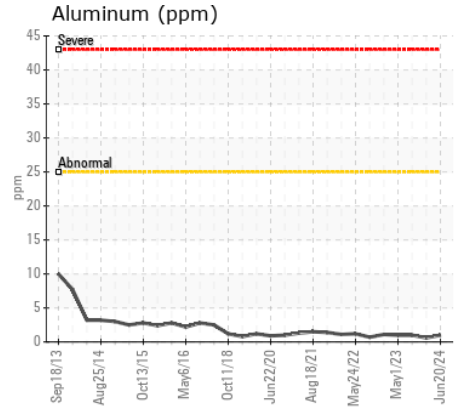
Iron (ppm)



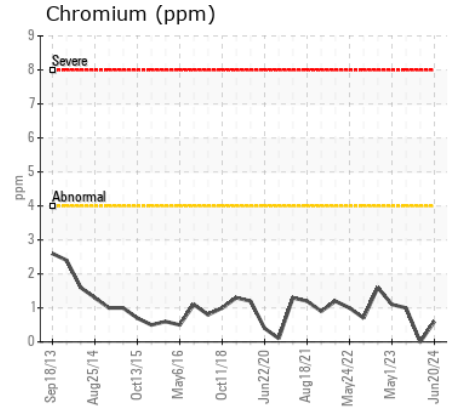
Lead (ppm)



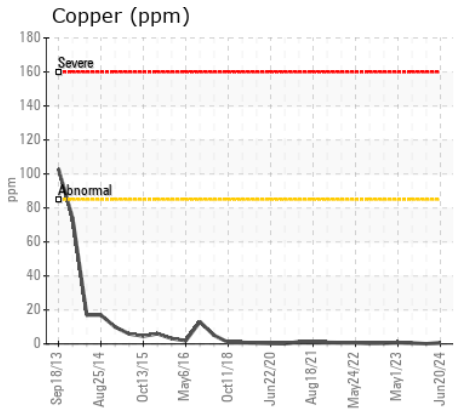
Aluminum (ppm)



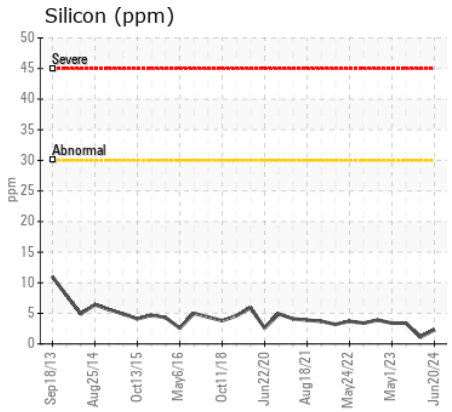
Chromium (ppm)



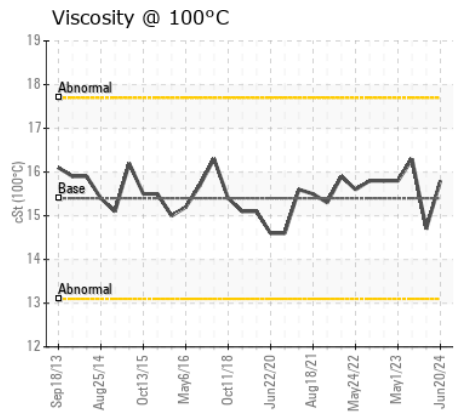
Copper (ppm)



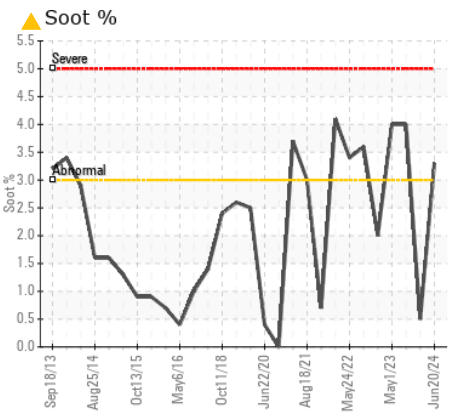
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: GFL0126615	**Received**	: 24 Jun 2024
Lab Number	: 02643632	**Tested**	: 25 Jun 2024
Unique Number	: 5801171	**Diagnosed**	: 25 Jun 2024 - Wes Davis
Test Package	: MOB 1 (Additional Tests: FuelDilution, 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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