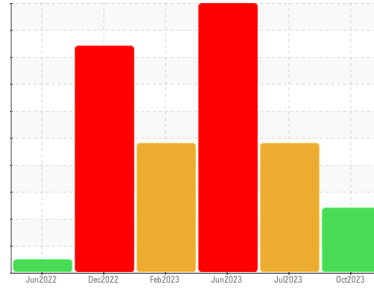




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
PETERBILT 423050

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Check for low coolant level. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service (see recommendation).

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0068056	GFL0068054	GFL0068042
Sample Date	Client Info	04 Oct 2023	06 Jul 2023	02 Jun 2023
Machine Age	hrs	17545	17122	17001
Oil Age	hrs	17545	121	500
Oil Changed	Client Info	Changed	Not Changd	Changed
Sample Status		ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >110	47	34	▲ 114
Chromium	ppm ASTM D5185(m) >4	1	1	▲ 4
Nickel	ppm ASTM D5185(m) >2	0	0	<1
Titanium	ppm ASTM D5185(m)	0	0	<1
Silver	ppm ASTM D5185(m) >2	<1	<1	0
Aluminum	ppm ASTM D5185(m) >25	5	3	10
Lead	ppm ASTM D5185(m) >45	1	<1	3
Copper	ppm ASTM D5185(m) >85	5	2	6
Tin	ppm ASTM D5185(m) >4	<1	0	2
Antimony	ppm ASTM D5185(m)	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	2	4	3
Barium	ppm ASTM D5185(m) 0	<1	0	0
Molybdenum	ppm ASTM D5185(m) 60	156	146	286
Manganese	ppm ASTM D5185(m) 0	0	<1	1
Magnesium	ppm ASTM D5185(m) 1010	844	927	776
Calcium	ppm ASTM D5185(m) 1070	967	942	975
Phosphorus	ppm ASTM D5185(m) 1150	769	1028	816
Zinc	ppm ASTM D5185(m) 1270	1051	1118	1073
Sulfur	ppm ASTM D5185(m) 2060	2491	2595	2537
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >30	10	9	19
Sodium	ppm ASTM D5185(m)	▲ 1134	▲ 1143	▲ 2617
Potassium	ppm ASTM D5185(m) >20	▲ 500	▲ 444	▲ 1195
Glycol	% ASTM D7922*	0.0	▲ 0.089	■ 0.131

INFRA-RED

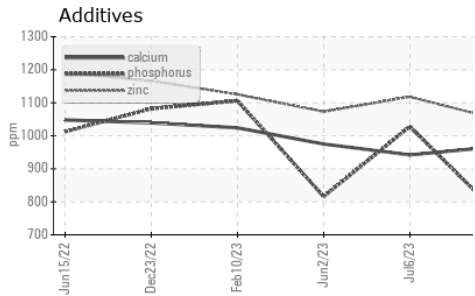
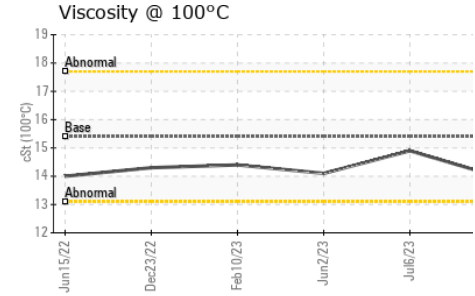
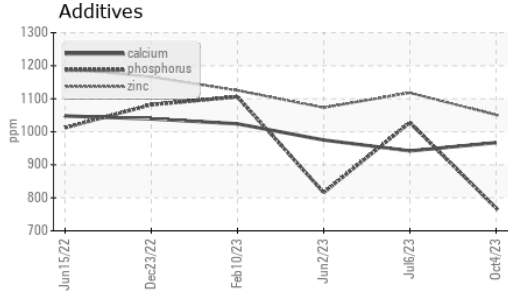
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0.3	0.1	0.5
Nitration	Abs/cm ASTM D7624* >20	12.7	10.5	19.6
Sulfation	Abs/.1mm ASTM D7415* >30	21.8	19.2	25.7

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	18.2	14.7	20.3



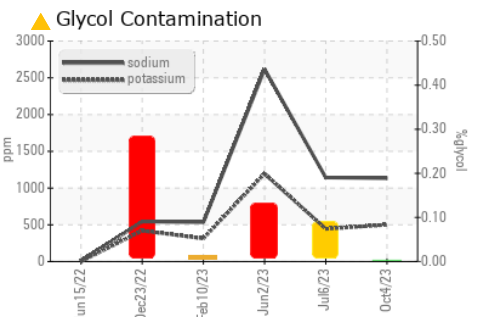
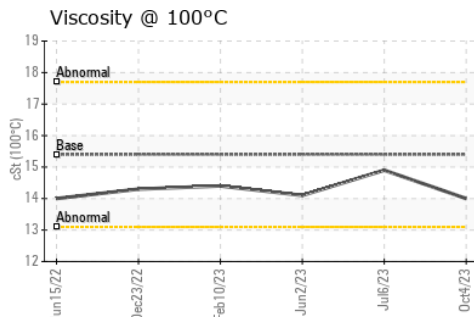
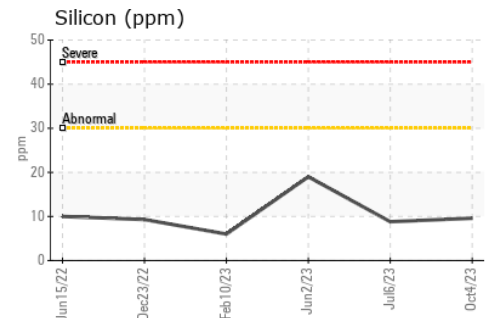
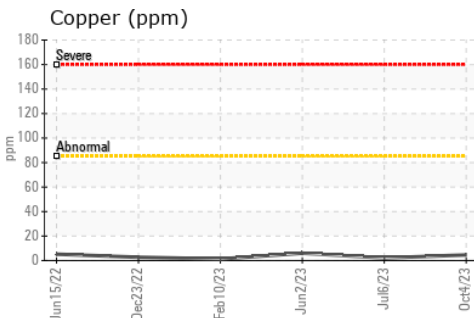
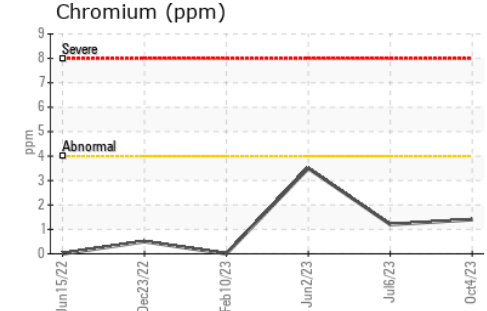
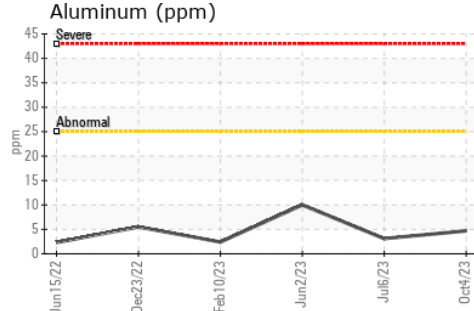
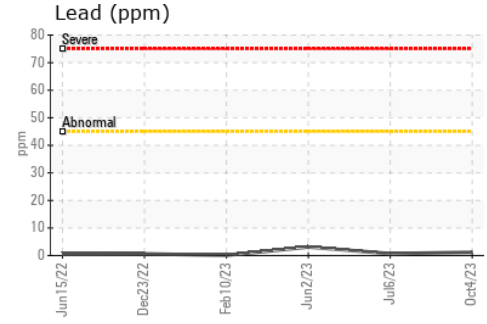
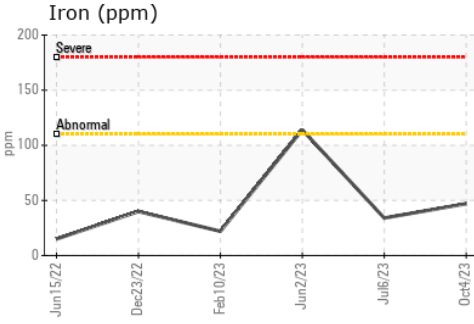
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	14.9

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0068056 **Received** : 12 Oct 2023
Lab Number : 02588481 **Diagnosed** : 16 Oct 2023
Unique Number : 5657547 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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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.