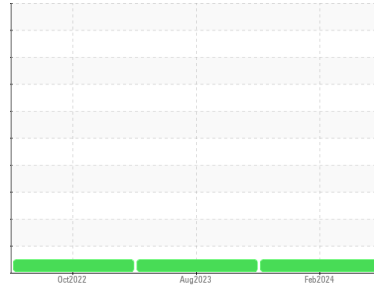




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
811056

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0102595	GFL0090621	GFL0059999
Sample Date	Client Info	05 Feb 2024	30 Aug 2023	06 Oct 2022
Machine Age	hrs Client Info	0	1170	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	7	32	27
Chromium	ppm ASTM D5185(m) >20	<1	2	2
Nickel	ppm ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm ASTM D5185(m) >2	0	<1	<1
Silver	ppm ASTM D5185(m) >2	0	<1	2
Aluminum	ppm ASTM D5185(m) >25	1	2	2
Lead	ppm ASTM D5185(m) >40	0	<1	<1
Copper	ppm ASTM D5185(m) >330	<1	4	8
Tin	ppm ASTM D5185(m) >15	0	0	<1
Antimony	ppm ASTM D5185(m)	0	0	<1
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) 2	2	1	6
Barium	ppm ASTM D5185(m) 0	0	0	0
Molybdenum	ppm ASTM D5185(m) 50	56	58	51
Manganese	ppm ASTM D5185(m) 0	0	1	2
Magnesium	ppm ASTM D5185(m) 950	929	972	909
Calcium	ppm ASTM D5185(m) 1050	1027	1030	1046
Phosphorus	ppm ASTM D5185(m) 995	990	1052	1055
Zinc	ppm ASTM D5185(m) 1180	1144	1172	1137
Sulfur	ppm ASTM D5185(m) 2600	2730	2491	2538
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

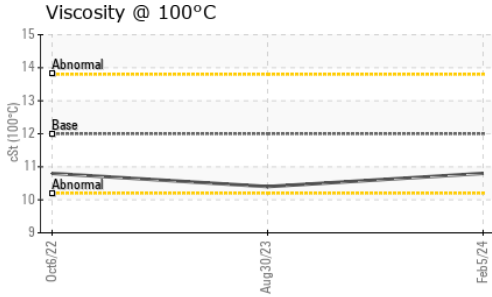
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	10	11	12
Sodium	ppm ASTM D5185(m)	2	5	5
Potassium	ppm ASTM D5185(m) >20	<1	<1	1

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	0.3	0
Nitration	Abs/cm ASTM D7624* >20	5.7	9.9	8.2
Sulfation	Abs/.1mm ASTM D7415* >30	18.3	22.2	21.0



OIL ANALYSIS REPORT



FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs./1mm ASTM D7414*	>25	14.2	19.5	16.9

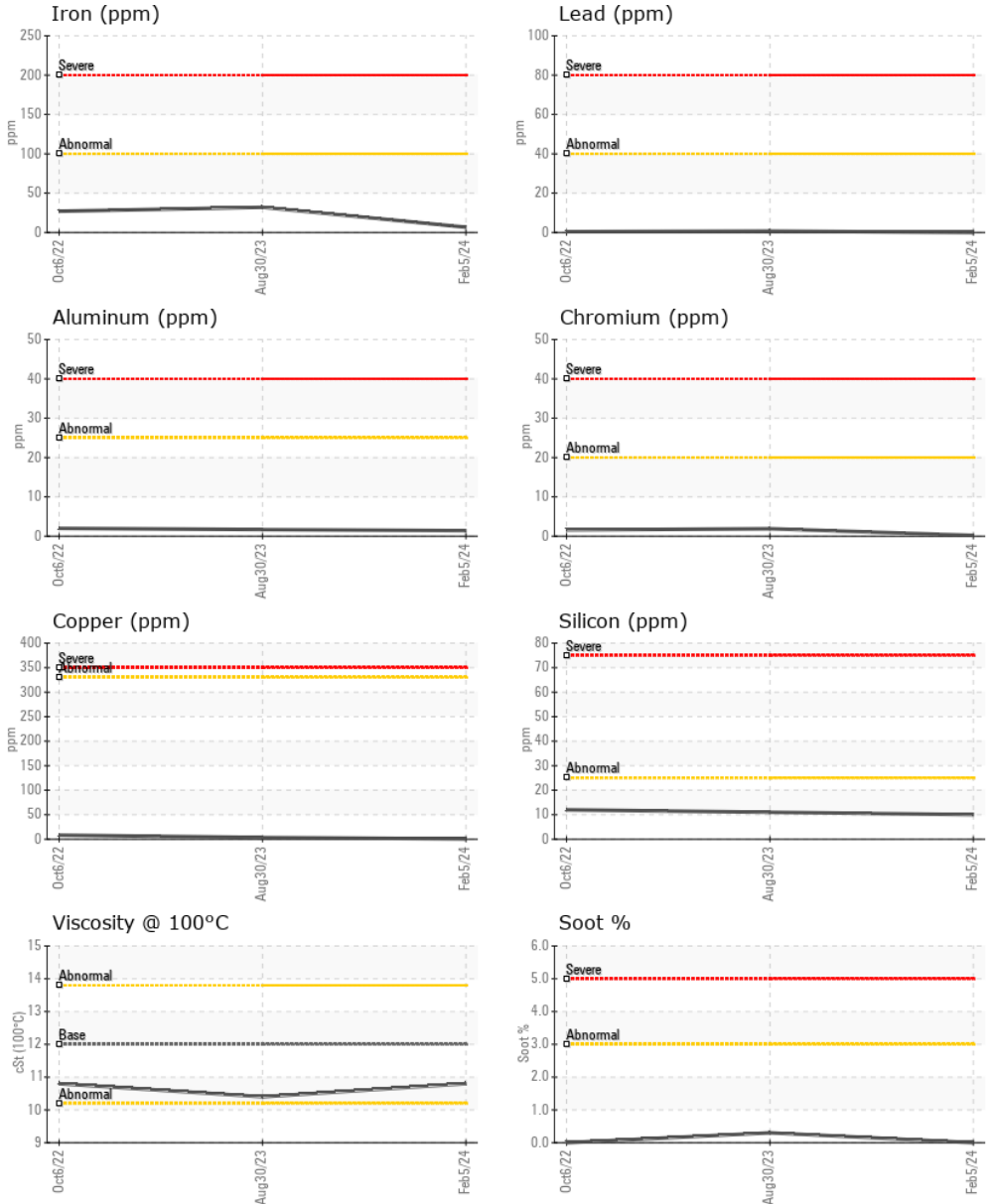
VISUAL

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

FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 100°C	cSt ASTM D7279(m)	12.00	10.8	10.4	10.8

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW
Sample No. : GFL0102595 **Received** : 06 Feb 2024
Lab Number : 02613677 **Diagnosed** : 06 Feb 2024
Unique Number : 5722772 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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