



Machine Id
REX1316
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (25 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100854	GFL0072287	GFL0072289
Sample Date		Client Info		09 Feb 2024	31 May 2023	07 Mar 2023
Machine Age	hrs	Client Info		5724	4867	4475
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	38	11	10
Chromium	ppm	ASTM D5185(m)	>20	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	16	5	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	4	2	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

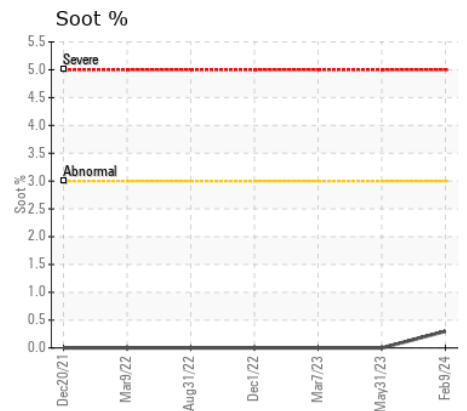
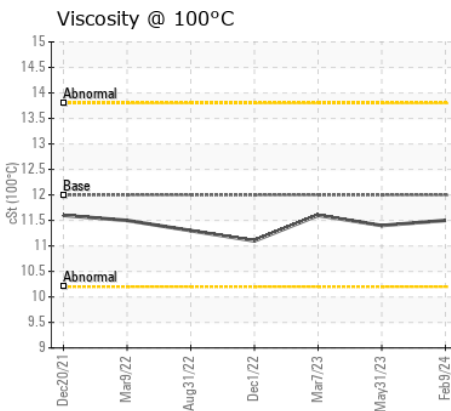
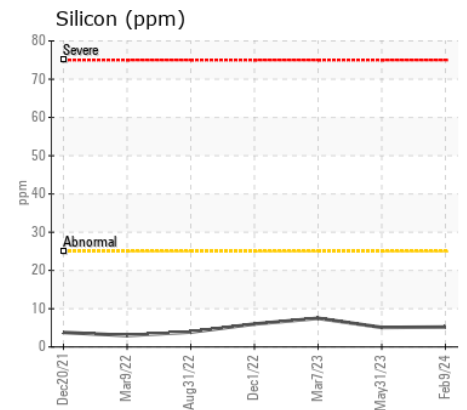
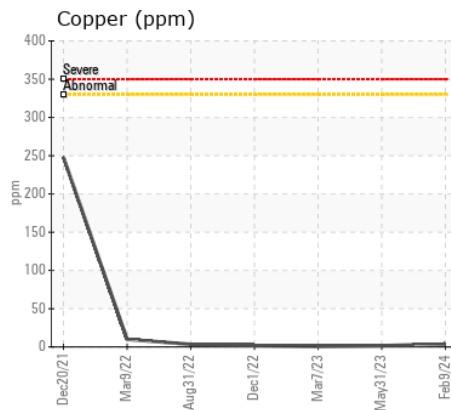
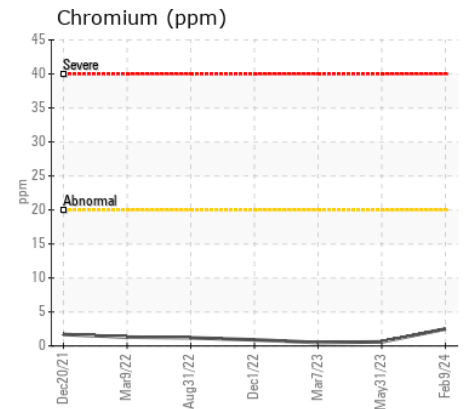
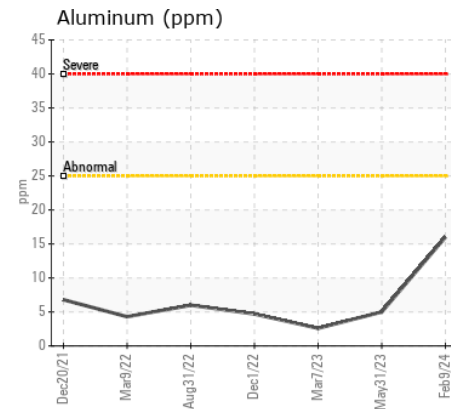
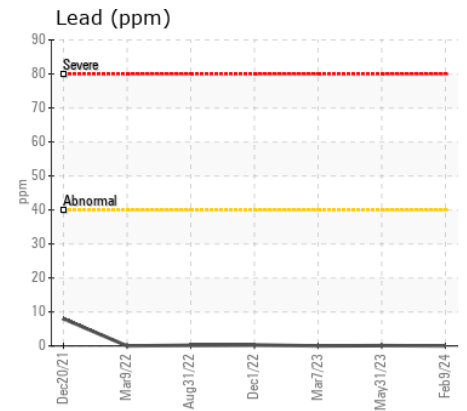
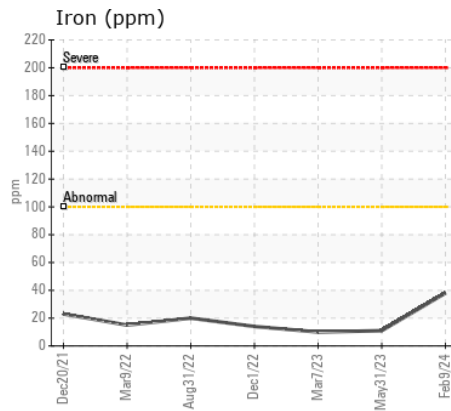
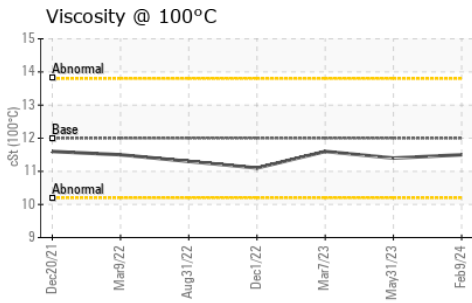
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	5	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.5	5.9	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	18.6	20.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		4	2	2
Boron	ppm	ASTM D5185(m)	2	2	4	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	61	59	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	1007	973	971
Calcium	ppm	ASTM D5185(m)	1050	1103	1147	1152
Phosphorus	ppm	ASTM D5185(m)	995	1023	1087	1081
Zinc	ppm	ASTM D5185(m)	1180	1214	1181	1202
Sulfur	ppm	ASTM D5185(m)	2600	2618	2629	2704
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.2	13.9	13.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.5	11.4	11.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100854
Lab Number : 02619875
Unique Number : 5736985
Test Package : MOB 1
Received : 05 Mar 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Wes Davis

GFL Environmental - 520 - Winterburn
 20204 - 113 Avenue,
 Edmonton, AB
 CA T5S 0G3
 Contact: Jaekyung Ko
 jko@gflenv.com
 T: (780)444-8805
 F:

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.