



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Scoop 6 Yard
Machine Id
LHD6102
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (18 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084678	PC0075102	PC0066830
Sample Date		Client Info		30 Apr 2024	02 Nov 2023	11 May 2023
Machine Age	hrs	Client Info		4879	3868	2662
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	29	66	52
Chromium	ppm	ASTM D5185(m)	>20	<1	2	2
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	6	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	9	4
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

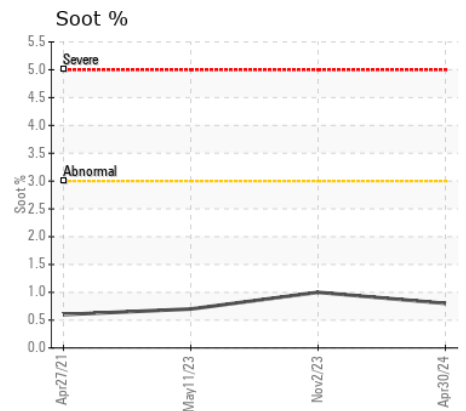
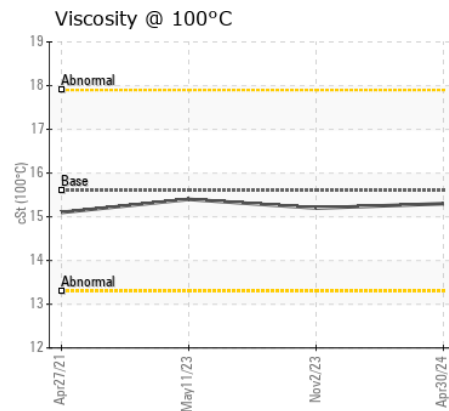
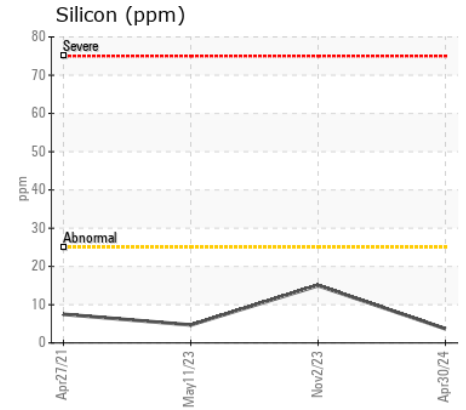
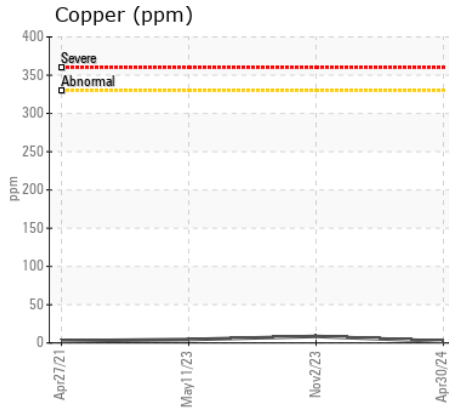
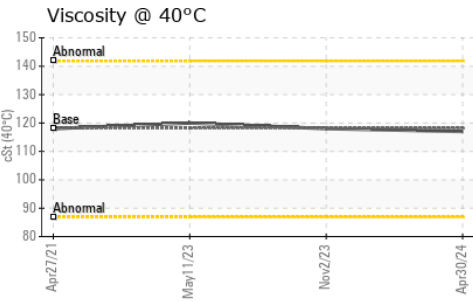
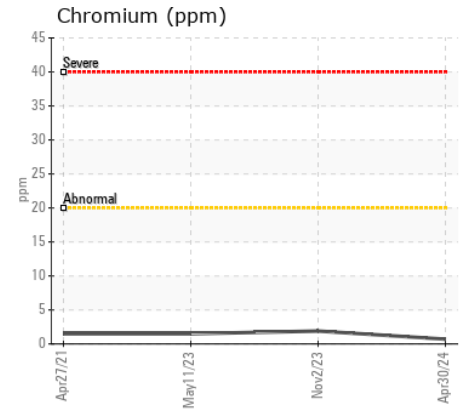
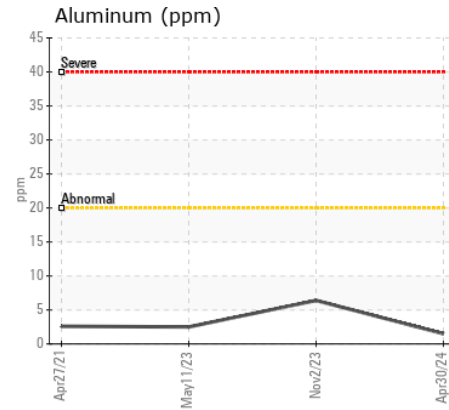
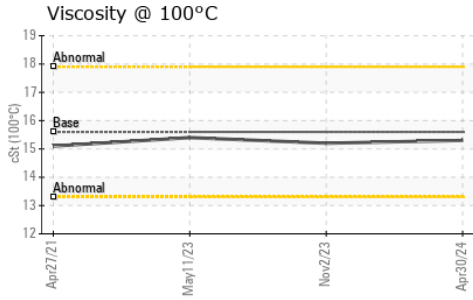
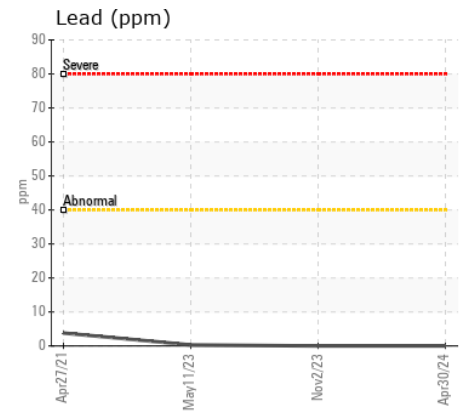
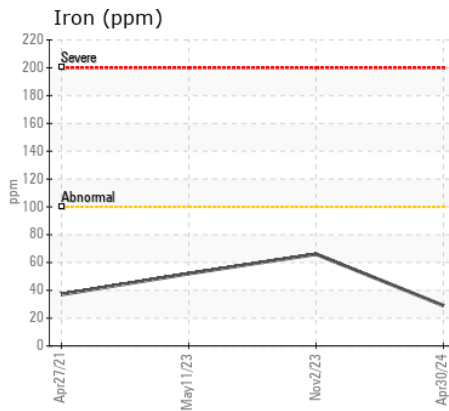
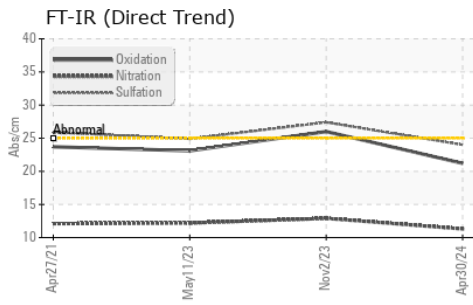
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	15	5
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
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	0.8	1	0.7
Nitration	Abs/cm	ASTM D7624*	>20	11.3	12.9	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	27.4	24.9
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)		2	6	3
Boron	ppm	ASTM D5185(m)	0	3	2	1
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	63	68	65
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	1045	1106	1084
Calcium	ppm	ASTM D5185(m)	1070	1132	1189	1149
Phosphorus	ppm	ASTM D5185(m)	1150	1060	1053	1095
Zinc	ppm	ASTM D5185(m)	1270	1270	1325	1283
Sulfur	ppm	ASTM D5185(m)	2060	2528	2437	2460
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.2	26.0	23.1
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	117	118	120
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	15.3	15.2	15.4
Viscosity Index (VI)	Scale	ASTM D2270*	139	136	134	134



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084678 **Received** : 29 May 2024
Lab Number : 02638362 **Tested** : 29 May 2024
Unique Number : 5787524 **Diagnosed** : 29 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

Lakeshore Gold Timmins West

Timmins, ON
CA

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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.