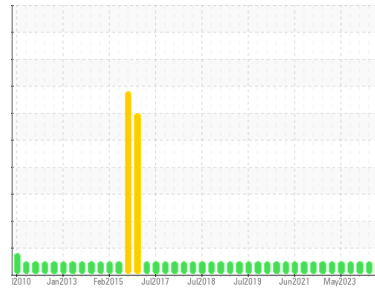


OIL ANALYSIS REPORT



Area
G.LOPES CONSTRUCTION INC./Off-Road
 Machine Id
L67
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

Sample Rating Trend



NORMAL

✓

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0122922	PCA0109540	PCA0109860
Sample Date	Client Info			24 Jun 2024	06 Mar 2024	20 Dec 2023
Machine Age	hrs Client Info			30168	30168	29820
Oil Age	hrs Client Info			27365	27713	27706
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 D5185m	>100		10	13	11
Chromium	ppm ASTM D5185m	>20		<1	0	<1
Nickel	ppm ASTM D5185m	>2		0	0	<1
Titanium	ppm ASTM D5185m	>2		0	0	<1
Silver	ppm ASTM D5185m	>2		0	0	0
Aluminum	ppm ASTM D5185m	>25		2	<1	1
Lead	ppm ASTM D5185m	>40		0	0	0
Copper	ppm ASTM D5185m	>330		4	4	5
Tin	ppm ASTM D5185m	>15		0	<1	0
Vanadium	ppm ASTM D5185m			0	0	0
Cadmium	ppm ASTM D5185m			0	0	0

ADDITIVES

		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0		4	3	8
Barium	ppm ASTM D5185m	0		0	0	0
Molybdenum	ppm ASTM D5185m	60		58	56	58
Manganese	ppm ASTM D5185m	0		0	0	0
Magnesium	ppm ASTM D5185m	1010		920	856	923
Calcium	ppm ASTM D5185m	1070		1094	997	1013
Phosphorus	ppm ASTM D5185m	1150		954	953	1052
Zinc	ppm ASTM D5185m	1270		1303	1080	1236
Sulfur	ppm ASTM D5185m	2060		3129	3204	3037

CONTAMINANTS

		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		2	2	2
Sodium	ppm ASTM D5185m			0	1	0
Potassium	ppm ASTM D5185m	>20		2	0	0

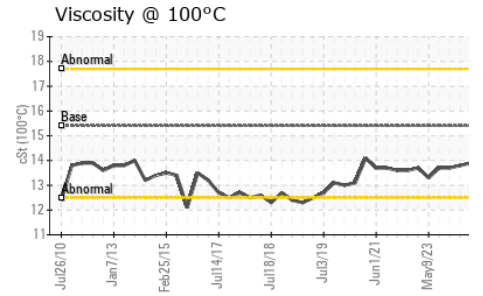
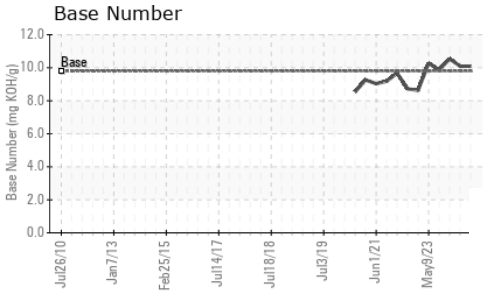
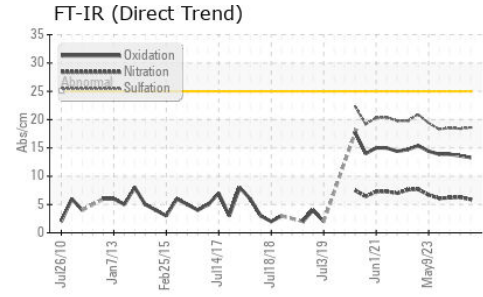
INFRA-RED

		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.9	6.3	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.4	18.5

FLUID DEGRADATION

		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.6	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.09	10.09	10.54

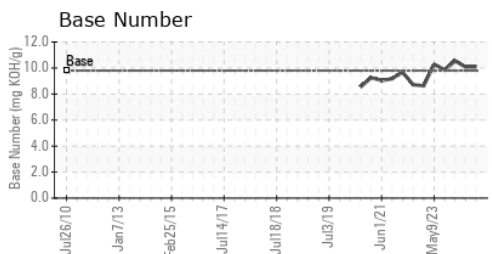
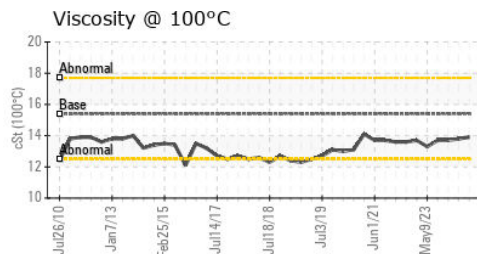
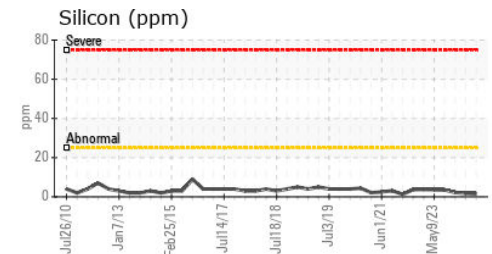
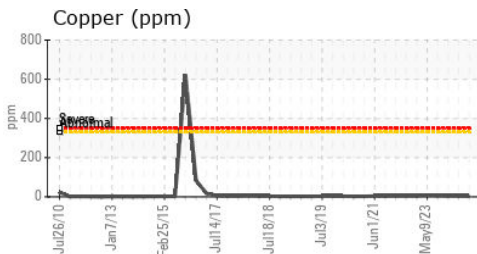
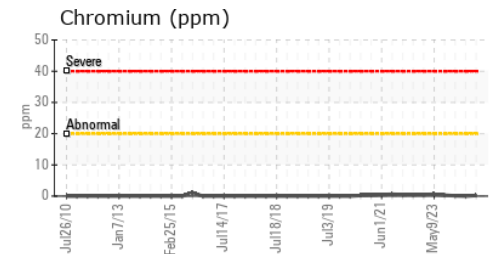
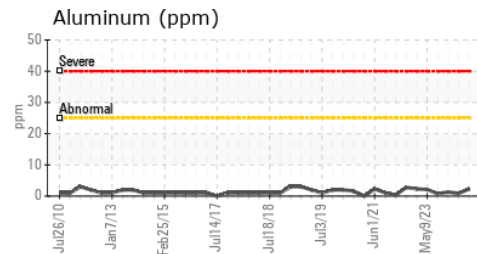
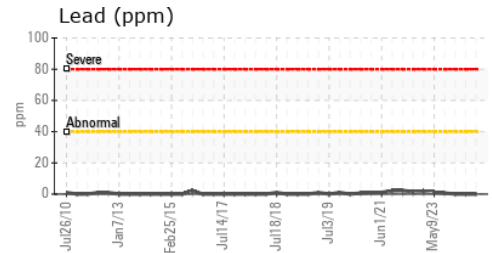
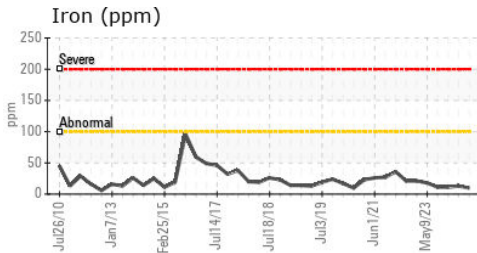
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
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 D445	15.4	13.9	13.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122922
Lab Number : 06221439
Unique Number : 11099636
Test Package : MOB 2

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

G LOPES CONSTRUCTION
 565 WINTHROP ST
 TAUNTON, MA
 US 02780
 Contact: BUTCH MCGRATH
 bmcgrath@glopes.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: