



Area
G.LOPES CONSTRUCTION INC./On-Road
Machine Id
288
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0122628	PCA0109552	PCA0104688
Sample Date		Client Info		08 May 2024	05 Dec 2023	20 Sep 2023
Machine Age	mls	Client Info		718000	707000	700000
Oil Age	mls	Client Info		648000	644000	644488
Filter Age	mls	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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	13	17	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	<1
Lead	ppm	ASTM D5185m	>40	2	0	2
Copper	ppm	ASTM D5185m	>330	<1	2	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

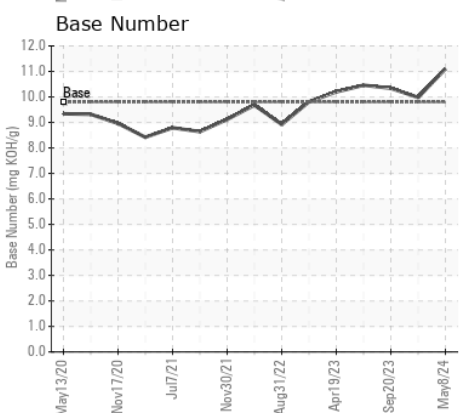
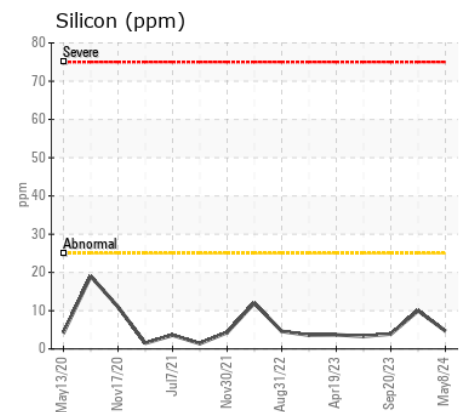
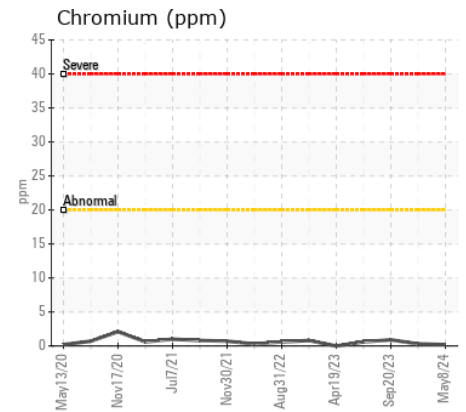
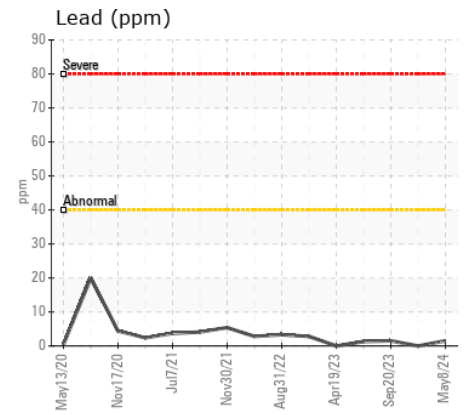
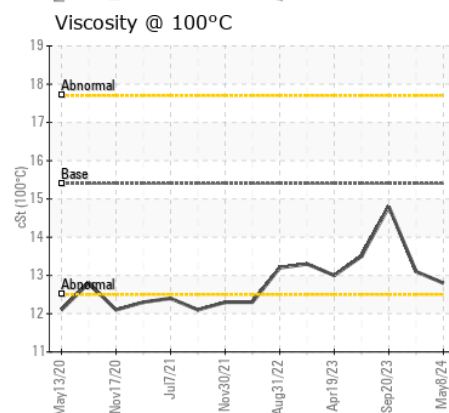
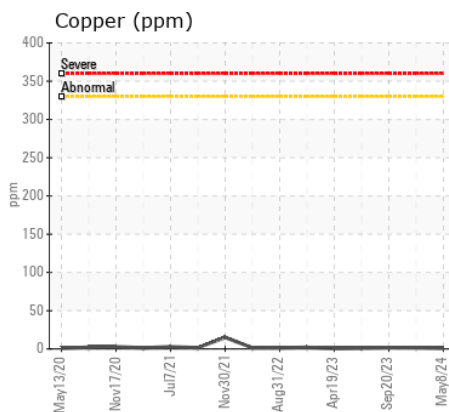
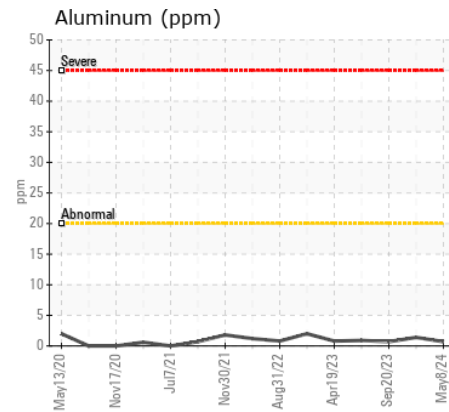
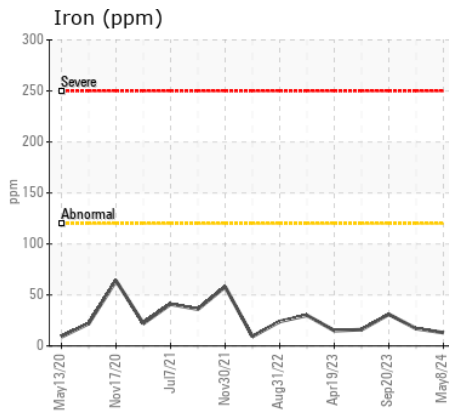
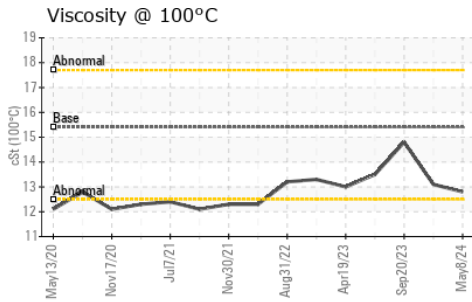
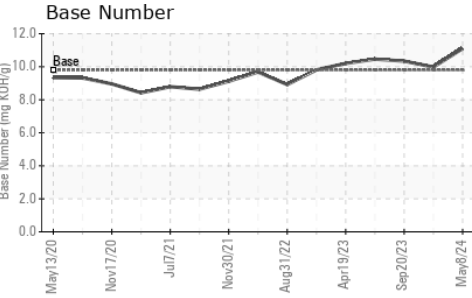
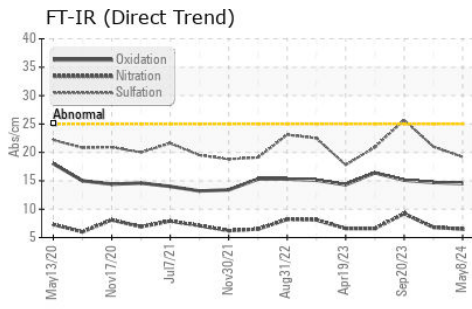
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	10	4
Potassium	ppm	ASTM D5185m	>20	18	7	5
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>4	0.8	1.8	▲ 4.2
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.8	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	21.0	25.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		20	8	5
Boron	ppm	ASTM D5185m	0	3	10	6
Barium	ppm	ASTM D5185m	0	<1	0	<1
Molybdenum	ppm	ASTM D5185m	60	59	57	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	918	889	856
Calcium	ppm	ASTM D5185m	1070	1072	976	1040
Phosphorus	ppm	ASTM D5185m	1150	1011	989	945
Zinc	ppm	ASTM D5185m	1270	1205	1195	1124
Sulfur	ppm	ASTM D5185m	2060	3379	3026	2989
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.7	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	11.10	9.98	10.34
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.1	14.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122628
Lab Number : 06175707
Unique Number : 11021760
Test Package : MOB 2
Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Wes Davis

G LOPES CONSTRUCTION
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 US 02780
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 T:
 F:

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)