

OIL ANALYSIS REPORT

G.LOPES CONSTRUCTION INC./Off-Road

Sample Rating Trend



Recommendation

Contamination

Fluid Condition

Wear

oil.

Diesel Engine

PETRO CANADA DU

•	- GAL)	ul2019 Feb2	020 Jan2021 Jun2021	Nov2021 May2022 Jan2023	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109813	PCA0104552	PCA009831
Sample Date		Client Info		07 Nov 2023	05 Sep 2023	28 Jun 2023
Machine Age	hrs	Client Info		9487	8761	8761
Oil Age	hrs	Client Info		5470	5145	5456
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	19	11
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	2	0
		ASTM D5185m	>25 >40	2	2	
Lead	ppm			-		<1
Copper	ppm	ASTM D5185m		3	5	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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	2	5
Barium	ppm	ASTM D5185m	0	2	2	0
Molybdenum	ppm	ASTM D5185m	60	61	68	70
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	881	993	1090
Calcium	ppm	ASTM D5185m	1070	947	1176	1233
Phosphorus	ppm	ASTM D5185m	1150	1021	1087	1172
Zinc	ppm	ASTM D5185m	1270	1219	1304	1439
Sulfur	ppm	ASTM D5185m	2060	2865	3155	4136
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	4
Sodium	ppm	ASTM D5185m		16	23	33
Potassium	ppm	ASTM D5185m	>20	6	9	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.7	10.2	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	22.1	21.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
FLUID DEGRAI	DATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 16.9	history1 19.5	history2 18.3



All component wear rates are normal.

oil is suitable for further service.

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

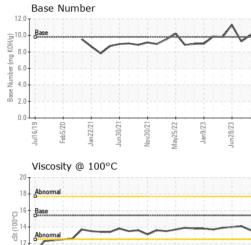


Base

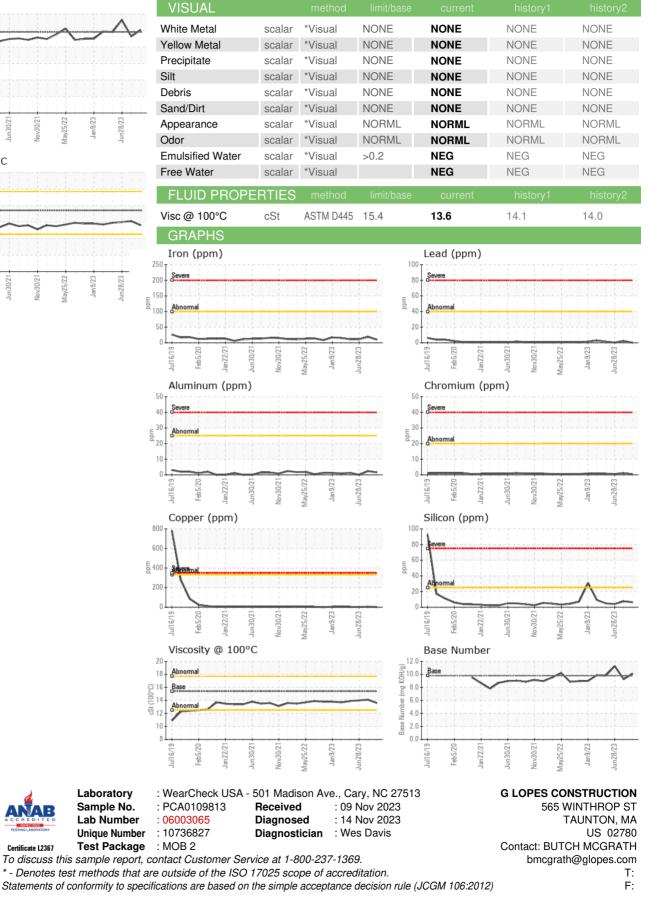
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May25/22



Certificate L2367

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