

## **OIL ANALYSIS REPORT**

#### Area G.LOPES CONSTRUCTION INC./ON-ROAD Machine Id 363

### 

PETRO CANADA DURON SHP 15W40 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

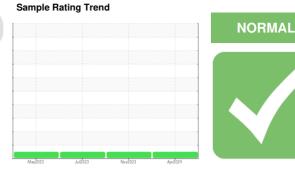
All component wear rates are normal.

#### 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.



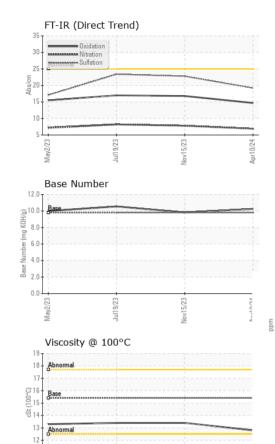
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109888	PCA0109769	PCA0098429
Sample Date		Client Info		10 Apr 2024	15 Nov 2023	19 Jul 2023
Machine Age	mls	Client Info		906000	894000	886000
Oil Age	mls	Client Info		906000	894000	886000
Oil Changed		Client 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
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	43	36
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel		ASTM D5185m	>20	<1	0	<1
Titanium	ppm	ASTM D5185m	>4	<1	<1	1
Silver	ppm	ASTM D5185m	>3	<1 0	<1	0
Aluminum	ppm			1	1	1
	ppm	ASTM D5185m	>20	3	2	3
Lead	ppm	ASTM D5185m	>40			
Copper	ppm	ASTM D5185m	>330	2	3	6
Tin	ppm	ASTM D5185m	>15	2	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	3	2
Barium	ppm	ASTM D5185m	0	0	<1	2
Molybdenum	ppm	ASTM D5185m	60	59	56	61
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	995	850	904
Calcium	ppm	ASTM D5185m	1070	1159	970	1086
Phosphorus	ppm	ASTM D5185m	1150	1145	922	991
Zinc	ppm	ASTM D5185m	1270	1335	1108	1185
Sulfur	ppm	ASTM D5185m	2060	3800	2918	3120
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	3	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	2.2	2.5
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	22.8	23.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	16.8	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.25	9.82	10.55



11

Mav2/23

# **OIL ANALYSIS REPORT**



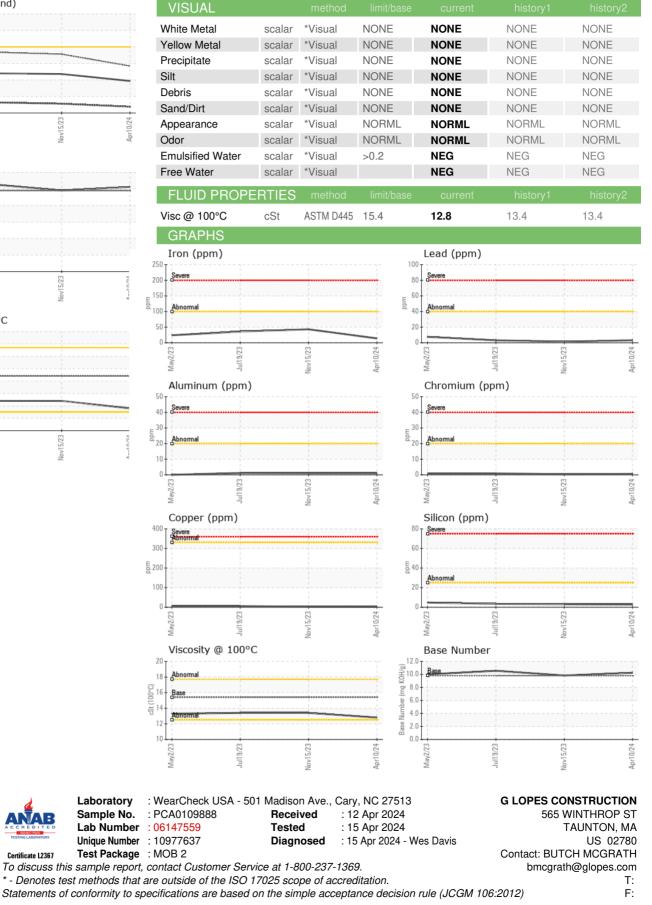
Jul19/23

lov15/23

cSt (100°C)

Laboratory

Sample No.



Certificate 12367