

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

G.LOPES CONSTRUCTION INC./Off-Road **R11**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL

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.

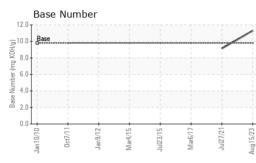
Fluid Condition

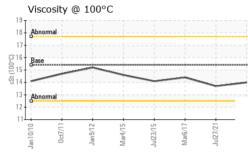
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

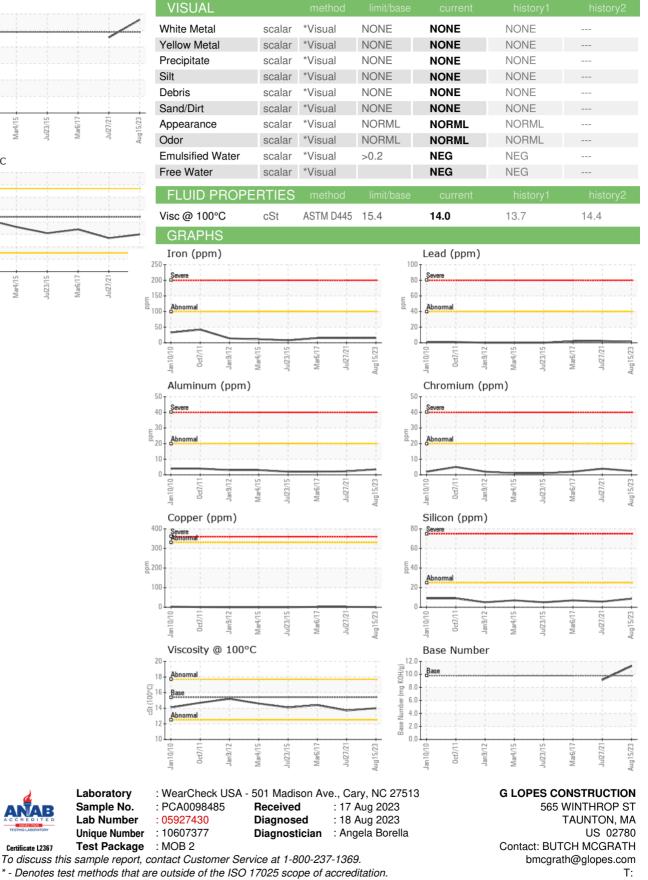
AL)		Janž010	OctŽ011 JanŽ012 MarŽ	015 Jul2015 Mar2017 Jul2021	Aug ² 023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0098485	WC0594299	PCA76253029	
Sample Date		Client Info		15 Aug 2023	27 Jul 2021	06 Mar 2017	
Machine Age	hrs	Client Info		6188	5884	4916	
Dil Age	hrs	Client Info		304	0		
Dil Changed		Client Info		N/A	Changed	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2	
uel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method	20	NEG	NEG	0.0	
			1				
WEAR META		method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>100	15	15	15	
Chromium	ppm	ASTM D5185m	>20	2	4	2	
lickel	ppm	ASTM D5185m	>4	0	<1	0	
ītanium	ppm	ASTM D5185m		<1	<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	2	2	
ead	ppm	ASTM D5185m	>40	1	2	2	
Copper	ppm	ASTM D5185m	>330	<1	2	2	
ïn	ppm	ASTM D5185m	>15	<1	<1	0	
ntimony	ppm	ASTM D5185m			0		
/anadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	14	65	39	
Barium	ppm	ASTM D5185m	0	0	0	0	
lolybdenum	ppm	ASTM D5185m	60	61	38	50	
langanese	ppm	ASTM D5185m	0	<1	<1		
lagnesium	ppm	ASTM D5185m	1010	973	566	825	
Calcium	ppm	ASTM D5185m	1070	1179	1838	1514	
Phosphorus	ppm	ASTM D5185m	1150	1033	800	995	
Zinc	ppm	ASTM D5185m	1270	1285	955	1151	
Sulfur	ppm	ASTM D5185m	2060	3689	2468		
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	9	6	7	
Sodium	ppm	ASTM D5185m		0	3	5	
Potassium	ppm	ASTM D5185m	>20	0	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.24	
litration	Abs/cm	*ASTM D7624	>20	7.1	9.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	23.6		
FLUID DEGRA		method	limit/base	current	history1	history2	
Dxidation	Abs/.1mm	*ASTM D7414	>25	14.5	22.2	2	
		ASTM D2896		11.29	9.14		



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

Certificate L2367

Laboratory

Sample No.

Lab Number

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