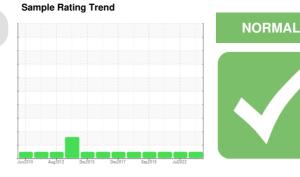


OIL ANALYSIS REPORT





Area G.LOPES CONSTRUCTION INC./Off-Road **PS21** Diesel Engine

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0122688	PCA0066500	PCA0018648
Resample at the next service interval to monitor.	Sample Date		Client Info		23 Apr 2024	13 Jul 2022	15 Dec 2020
/ear	Machine Age	hrs	Client Info		3786	3558	3383
l component wear rates are normal.	Oil Age	hrs	Client Info		3611	175	0
ontamination	Oil Changed		Client Info		N/A	N/A	Changed
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
l.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable	Fuel		WC Method	> 5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
calinity remaining in the oil. The condition of the	Glycol		WC Method	20.2	NEG	NEG	NEG
oil is suitable for further service.	-	0		line it /le e e e			
	WEAR METAL		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m		15	10	19
	Chromium	ppm	ASTM D5185m		<1	<1	1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	12	3
	Aluminum	ppm	ASTM D5185m		2	2	4
	Lead	ppm	ASTM D5185m		<1	1	2
	Copper	ppm	ASTM D5185m		<1	1	2
	Tin	ppm	ASTM D5185m	>15	0	1	<1
	Antimony	ppm	ASTM D5185m				<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	9	25	60
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	59	55	26
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	973	901	707
	Calcium	ppm	ASTM D5185m	1070	1198	1287	1805
	Phosphorus	ppm	ASTM D5185m	1150	1052	986	853
	Zinc	ppm	ASTM D5185m	1270	1223	1186	1089
	Sulfur	ppm	ASTM D5185m	2060	3588	3803	2812
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	6	10
	Sodium	ppm	ASTM D5185m		3	<1	5
	Potassium	ppm	ASTM D5185m	>20	0	0	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.2	8.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	20.0	21.9
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15.6	17.9
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.33	8.55	8.74
port Id: GLOTAU [WUSCAR] 06161696 (Generated: 04/28/202						Submitted By:	

Fluid Condition

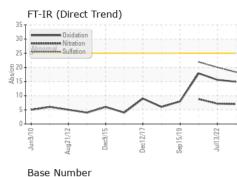
Report Id: GLOTAU [WUSCAR] 06161696 (Generated: 04/28/2024 14:08:18) Rev: 1

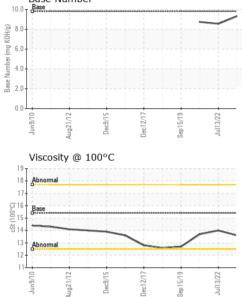
Submitted By: MATT MANOLI

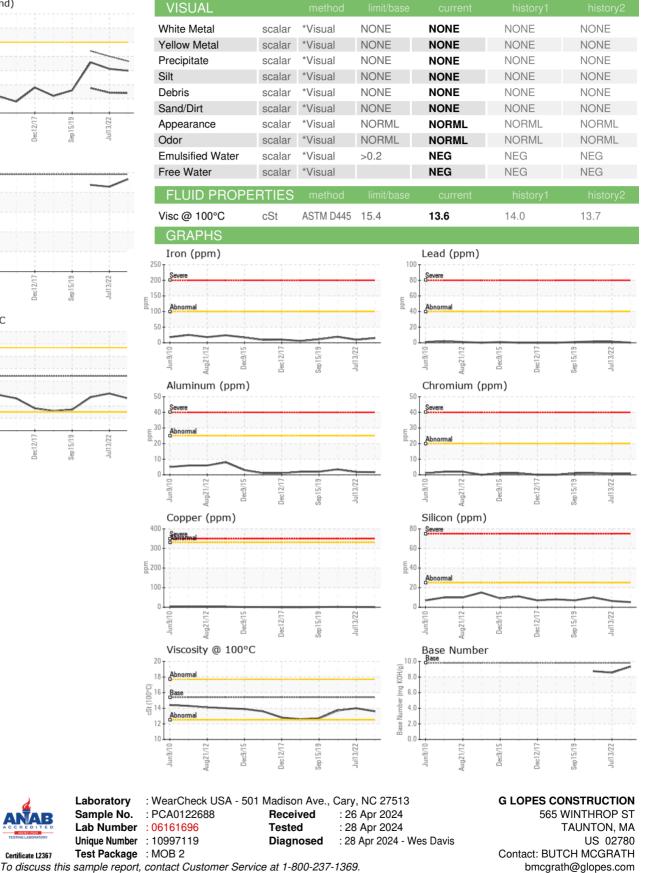
Page 1 of 2



OIL ANALYSIS REPORT







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: GLOTAU [WUSCAR] 06161696 (Generated: 04/28/2024 14:08:18) Rev: 1

Certificate 12367

Laboratory

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

Submitted By: MATT MANOLI Page 2 of 2

T:

F: