

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

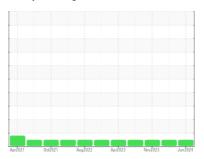


G.LOPES CONSTRUCTION INC./On-Road

344

Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

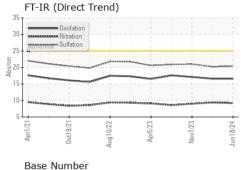
Fluid Condition

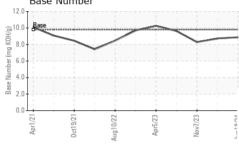
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

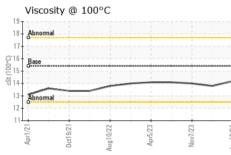
GAL)		Apr2021	Oct2021 Aug2022	Aprž023 Novž023	Jun2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122457	PCA0110059	PCA0109779
Sample Date		Client Info		18 Jun 2024	06 Mar 2024	07 Nov 2023
Machine Age	mls	Client Info		232000	212000	192000
Oil Age	mls	Client Info		59000	72000	72000
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	>3.0	<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	>200	18	18	15
Chromium	ppm	ASTM D5185m	>6	1	<1	1
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	6	8	6
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	5	6	6
Tin	ppm	ASTM D5185m	>6	0	<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	2	2	2
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	66	59	58
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1127	889	883
Calcium	ppm	ASTM D5185m	1070	1317	1030	963
Phosphorus	ppm	ASTM D5185m	1150	1165	939	988
Zinc	ppm	ASTM D5185m	1270	1493	1092	1221
Sulfur	ppm	ASTM D5185m	2060	3786	2890	2522
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	5	6
Sodium	ppm	ASTM D5185m		2	4	1
Potassium	ppm	ASTM D5185m	>20	5	9	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.4	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.2	21.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.6	17.1
Base Number (BN)	mg KOH/g		9.8	8.87	8.73	8.29
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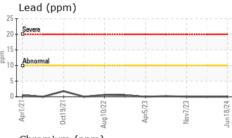


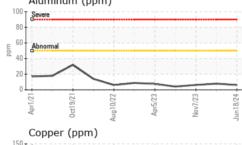


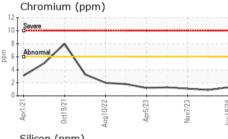
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

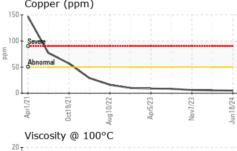
FLUID PROP	ERITES	method			riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.8	14.0

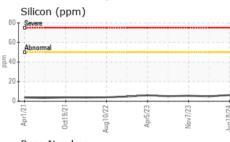
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300 - Severe			-		-
Abnom	mal	-			
100					
0					_
Apr1/21	Oct19/21	ug10/22	Apr5/23	Nov7/23	Jun18/24
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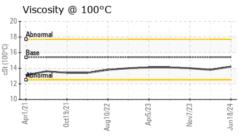


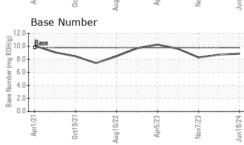
















Certificate 12367

Laboratory Sample No.

Lab Number : 06215924 Unique Number : 11088788

Test Package : MOB 2

: PCA0122457

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 22 Jun 2024

Diagnosed : 22 Jun 2024 - Wes Davis **G LOPES CONSTRUCTION**

565 WINTHROP ST TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com T:

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)

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