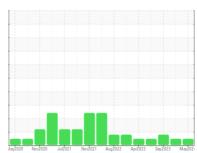


OIL ANALYSIS REPORT

Sample Rating Trend









GLOPES CONSTRUCTION INC./On-Road 288 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

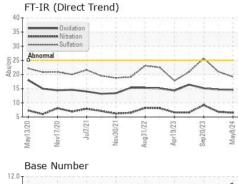
Fluid Condition

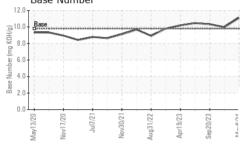
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

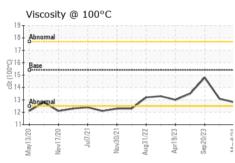
SAMPLE INFOR	MATION	method				history2
Sample Number		Client Info		PCA0122628	PCA0109552	PCA0104688
Sample Date		Client Info		08 May 2024	05 Dec 2023	20 Sep 2023
Machine Age	mls	Client Info		718000	707000	700000
Oil Age	mls	Client Info		648000	644000	644488
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
- uel		WC Method	>3.0	<1.0	<1.0	<1.0
<i>N</i> ater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	13	17	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	<1
_ead	ppm	ASTM D5185m	>40	2	0	2
Copper	ppm	ASTM D5185m	>330	<1	2	2
Γin	ppm	ASTM D5185m	>15	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	3	10	6
Barium	ppm	ASTM D5185m	0	<1	0	<1
Molybdenum	ppm	ASTM D5185m	60	59	57	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	918	889	856
Calcium	ppm	ASTM D5185m	1070	1072	976	1040
Phosphorus	ppm	ASTM D5185m	1150	1011	989	945
Zinc	ppm	ASTM D5185m	1270	1205	1195	1124
Sulfur	ppm	ASTM D5185m	2060	3379	3026	2989
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	10	4
Sodium	ppm	ASTM D5185m		20	8	5
Potassium	ppm	ASTM D5185m	>20	18	7	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	8.0	1.8	4.2
Nitration	Abs/cm	*ASTM D7624		6.5	6.8	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	21.0	25.7
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
TEOID DEGI						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.7	15.1



OIL ANALYSIS REPORT





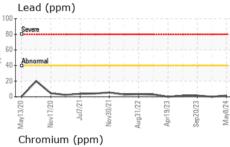


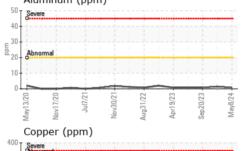
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

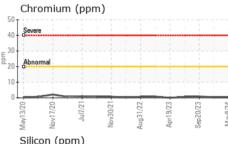
L LLOID PROPI		method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.1	14.8

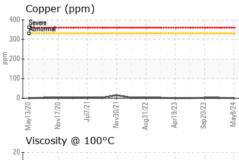
Severe					
200 -					
Abnormal					
50					
30	-				
0		_	\rightarrow	\rightarrow	=
3/20	30/21	1722	9/23	0/23	18/24
May13/20 Nov17/20	Nov30/21	Aug31/22	Apr19/23	Sep20/23	May8/24
Aluminum (pp		Aug31/22-	Apr19/23	Sep20/23 -	May8/24

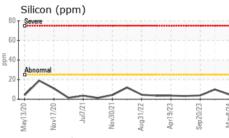
GRAPHS

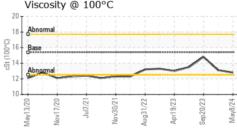


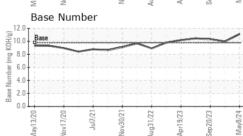
















Certificate 12367

Laboratory Sample No.

: PCA0122628 Lab Number : 06175707 Unique Number : 11021760 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024 **Tested** : 13 May 2024

Diagnosed : 13 May 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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