

OIL ANALYSIS REPORT

Sample Rating Trend

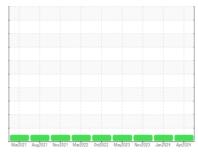
Area

GLOPES CONSTRUCTION INC./On-Road PU291

Diesel Engine

Fluid

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.

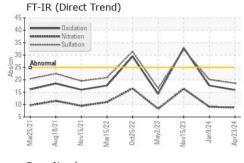
Fluid Condition

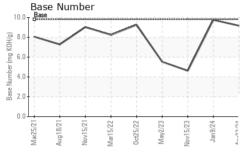
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

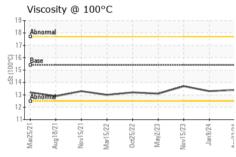
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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122612	PCA0109652	PCA0083388
Sample Date		Client Info		23 Apr 2024	09 Jan 2024	15 Nov 2023
Machine Age	mls	Client Info		84000	77000	63000
Oil Age	mls	Client Info		32021	25021	25021
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	11	7	50
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	4
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	3	<1	1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	0	1
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	59	55	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	951	939	899
Calcium	ppm	ASTM D5185m	1070	1118	997	1019
Phosphorus	ppm	ASTM D5185m	1150	1042	1003	944
Zinc	ppm	ASTM D5185m	1270	1215	1287	1158
Sulfur	ppm	ASTM D5185m	2060	3485	3157	2654
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	5
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	1	1	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.6	1.8
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.1	16.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	20.1	32.2
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	17.7	32.8
Base Number (BN)	mg KOH/g	ASTM D2896		9.17	9.76	4.62
(211)				J		



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

FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.3	13.7

GRAPHS	
Iron (ppm)	Lead (ppm)
200 Severe	Severe 80 - Severe
150 - Abnormal	E 60 Abnormal
	10 0
50	20
Mar25/21 + Aug18/21 + Nov15/22 + Mar15/22 + Mar/2/23 + Jan9/2/23 + Jan9/2/24 + Jan9/2/4	Apr.23/24 - Apr.23/24 - Apr.25/21 - Nov15/21 - Oct25/22 - Jan9/2/3 - Jan9/24 - Apr.23/24 -
Aluminum (ppm)	Chromium (ppm)
50 40 Severe	50 40 Severe
E 30	
E 20 - Abnormal	E 20 Abnormal
10	10
Mar25/21	Apr23/24 Aug 18/21 Nov15/21 Mar15/22 Oct25/22 Jan9/24 Apr23/24
Copper (ppm)	Silicon (ppm)
Severe Patriorinal	80 T Severe
200	E 40
	Abnormal
100	20
Mar25/21 Nov15/21 Mar15/22 Oct25/22 Nov15/23 Jan9/24 Jan9/24	Aug 18;21 - Aug 18;21 - Aug 18;22 - Aug 18;22 - Aug 18;22 - Aug 18;23 - Aug 18;24 - Aug 18;25 - Aug 18
Viscosity @ 100°C	Base Number
20 Abnormal	0 10.0 T Base
50 16 Base 8 14 Abnormal	0.8 KOH(d) 6.0 4.0
	₩ 4.0





Certificate 12367

Laboratory Sample No.

Lab Number : 06161707 Unique Number : 10997130

: PCA0122612 Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 26 Apr 2024 : 28 Apr 2024

: 28 Apr 2024 - Wes Davis

G LOPES CONSTRUCTION 565 WINTHROP ST

TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

* - 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)

Submitted By: MATT MANOLI

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