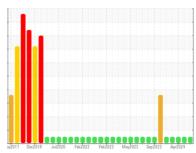


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10719 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (29 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

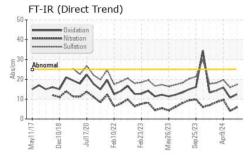
Fluid Condition

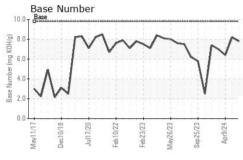
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

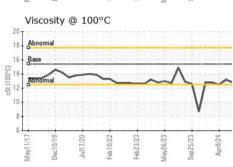
GAL)		sy2017 Dec2	018 Jul2020 Feb2022	Feb2023 May2023 Sep2023	Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0122197	GFL0118010	GFL0115705	
Sample Date		Client Info		23 May 2024	18 Apr 2024	09 Apr 2024	
Machine Age	hrs	Client Info		11368	11233	11192	
Oil Age	hrs	Client Info		135	537	496	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
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	10	2	24	
Chromium	ppm	ASTM D5185m	>20	<1	0	0	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	1	7	
Lead	ppm	ASTM D5185m	>40	<1	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	0	0	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	8	9	5	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	61	60	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	876	861	846	
Calcium	ppm	ASTM D5185m	1070	1074	1051	1009	
Phosphorus	ppm	ASTM D5185m	1150	976	953	949	
Zinc	ppm	ASTM D5185m	1270	1168	1118	1133	
Sulfur	ppm	ASTM D5185m	2060	3308	3401	2918	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	4	5	
Sodium	ppm	ASTM D5185m		3	0	7	
Potassium	ppm	ASTM D5185m	>20	2	0	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.1	1	
Nitration	Abs/cm	*ASTM D7624	>20	5.9	4.1	9.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	15.9	19.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4	10.8	15.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.2	6.4	
,							



OIL ANALYSIS REPORT



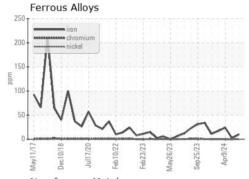


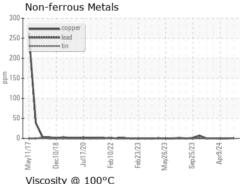


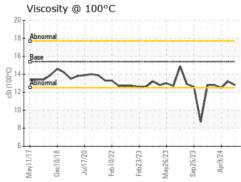
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

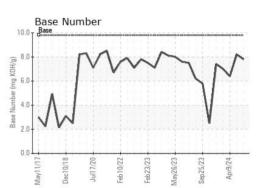
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.2	12.5

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06191500 Unique Number : 11048252 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122197

Received : 24 May 2024 **Tested** : 29 May 2024 Diagnosed

: 29 May 2024 - Wes Davis

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA

US 30281

Contact: JOSHUA TINKER

joshuatinker@gflenv.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) Report Id: GFL010 [WUSCAR] 06191500 (Generated: 05/29/2024 01:00:25) Rev: 1

Submitted By: JOSHUA TINKER

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