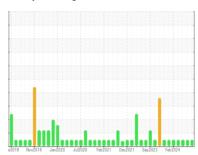


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 10460 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 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.

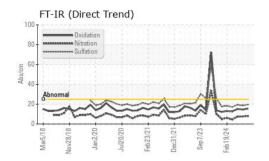
Fluid Condition

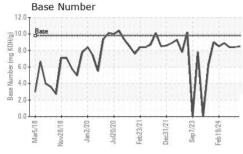
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

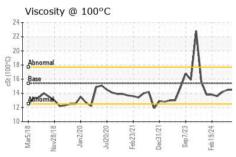
iAL)		r2018 Nov20	118 Jan 2020 Jul 2020	Feb2021 Dec2021 Sep2023 F	eb 2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0111532	GFL0111569	GFL0111574			
Sample Date		Client Info		21 Jun 2024	14 May 2024	01 Apr 2024			
Machine Age	hrs	Client Info		0	0	0			
Oil Age	hrs	Client Info		0	0	0			
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	>75	10	4	5			
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m	>2	0	<1	0			
Silver	ppm	ASTM D5185m	>2	0	<1	0			
Aluminum	ppm	ASTM D5185m	>15	3	2	2			
Lead	ppm	ASTM D5185m	>25	0	<1	0			
Copper	ppm	ASTM D5185m	>100	<1	<1	1			
Tin	ppm	ASTM D5185m	>4	0	<1	0			
Vanadium	ppm	ASTM D5185m		0	<1	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	23	28	26			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	51	54	54			
Manganese	ppm	ASTM D5185m	0	0	0	<1			
Magnesium	ppm	ASTM D5185m	1010	665	751	778			
Calcium	ppm	ASTM D5185m	1070	1283	1243	1265			
Phosphorus	ppm	ASTM D5185m	1150	814	1015	887			
Zinc	ppm	ASTM D5185m	1270	994	1061	1065			
Sulfur	ppm	ASTM D5185m	2060	2330	3115	3123			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>25	5	4	4			
Sodium	ppm	ASTM D5185m		3	3	6			
Potassium	ppm	ASTM D5185m	>20	1	2	1			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.6	0.1	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.6	7.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	18.6	19.3			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	14.6	15.2			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.4	8.4			
,									

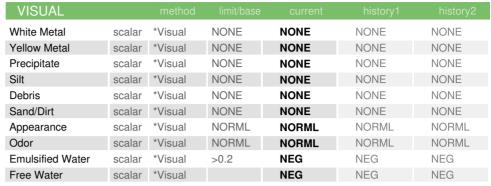


OIL ANALYSIS REPORT



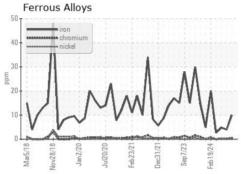


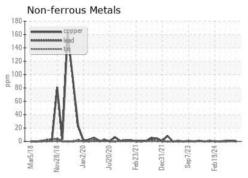


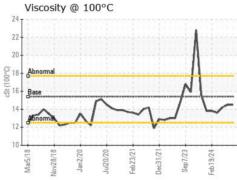


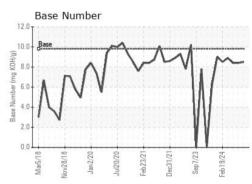
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.5	14.2

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06226993 Unique Number : 11110486 Test Package : FLEET

: GFL0111532

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2024

Tested : 03 Jul 2024 Diagnosed

: 03 Jul 2024 - Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste 155 Story Road Warner Robins, GA US 31093 Contact: JOSH MALONEY

jmaloney@gflenv.com T:

 st - 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: GFL073 [WUSCAR] 06226993 (Generated: 07/03/2024 16:41:39) Rev: 1

Submitted By: JOSH MALONEY

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