

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

427082-402335 **Diesel Engine** Fluid

PETRO CANADA DURON SH

Sulfation

Oxidation

Abs/.1mm *ASTM D7415 >30

Abs/.1mm *ASTM D7414 >25

FLUID DEGRADATION method

Base Number (BN) mg KOH/g ASTM D2896 9.8

5											
N SHP 15W40 (GAL)											
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2					
Sample Number		Client Info		GFL0123161	GFL0104973	GFL0104868					
Sample Date		Client Info		23 May 2024	06 May 2024	19 Apr 2024					
Machine Age	hrs	Client Info		16814	16688	237482					
Dil Age	hrs	Client Info		0	0	237482					
Dil Changed		Client Info		N/A	N/A	N/A					
Sample Status				NORMAL	NORMAL	NORMAL					
CONTAMINAT	ION	method	limit/base	current	history1	history2					
⁻ uel		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					
ron	ppm	ASTM D5185m	>120	10	7	6					
Chromium	ppm	ASTM D5185m	>20	0	0	<1					
Nickel	ppm	ASTM D5185m	>5	0	0	0					
Fitanium	ppm	ASTM D5185m	>2	0	0	<1					
Silver	ppm	ASTM D5185m	>2	0	0	<1					
Aluminum	ppm	ASTM D5185m	>20	2	<1	3					
ead	ppm	ASTM D5185m	>40	0	0	2					
Copper	ppm	ASTM D5185m	>330	1	<1	1					
Γin	ppm	ASTM D5185m	>15	0	0	1					
/anadium	ppm	ASTM D5185m		0	0	<1					
Cadmium	ppm	ASTM D5185m		0	0	<1					
ADDITIVES		method	limit/base	current	history1	history2					
Boron	ppm	ASTM D5185m	0	0	0	0					
Barium	ppm	ASTM D5185m	0	0	0	0					
Molybdenum	ppm	ASTM D5185m	60	55	54	62					
<i>l</i> langanese	ppm	ASTM D5185m	0	<1	<1	0					
Magnesium	ppm	ASTM D5185m	1010	896	864	970					
Calcium	ppm	ASTM D5185m	1070	1022	931	1075					
Phosphorus	ppm	ASTM D5185m	1150	966	899	1069					
Zinc	ppm	ASTM D5185m	1270	1166	1117	1225					
Sulfur	ppm	ASTM D5185m	2060	3025	2960	2880					
CONTAMINAN	ITS	method	limit/base	current	history1	history2					
Silicon	ppm	ASTM D5185m	>25	<1	5	8					
Sodium	ppm	ASTM D5185m		6	5	4					
Potassium	ppm	ASTM D5185m	>20	4	0	3					
INFRA-RED		method	limit/base	current	history1	history2					
Soot %	%	*ASTM D7844	>4	0.6	0.5	0.4					
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.7	7.2					
o 16 11		****	~ ~			10.0					

20.7

17.1

5.9

20.2

16.3

6.7

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.

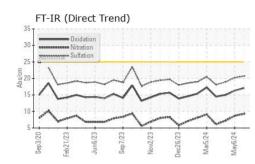
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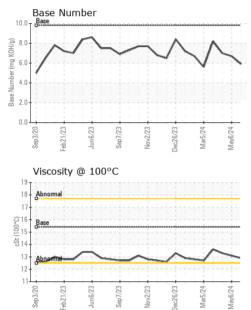
15.0

7.0



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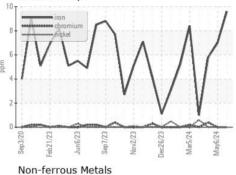


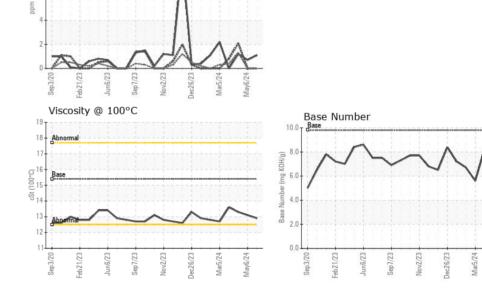


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.1	13.3
GRAPHS						

Ferrous Alloys

lead





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 820 - Joplin Hauling Sample No. : GFL0123161 Received : 04 Jun 2024 3700 West 7th Street Lab Number : 06198821 Tested : 05 Jun 2024 Joplin, MO US 64801 Unique Number : 11060944 Diagnosed : 05 Jun 2024 - Wes Davis Test Package : FLEET Contact: James Jarrett Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jjarrett@gflenv.com T: (417)310-2802 * - 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) F:

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Submitted By: VINCE ASTI Page 2 of 2

May6/24