

OIL ANALYSIS REPORT

Machine Id **428117** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (---

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

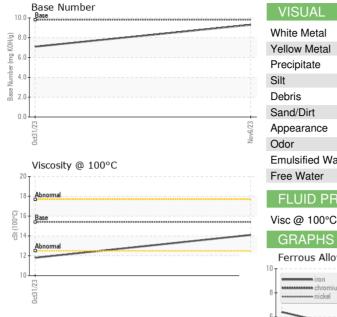
Fluid Condition

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

GAL)			0 ct 2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095269	GFL0095270	
Sample Date		Client Info		06 Nov 2023	31 Oct 2023	
Machine Age	hrs	Client Info		25724	25690	
Oil Age	hrs	Client Info		34	600	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	▲ 3.4	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	2	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	▲ 13	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	20	
Barium	ppm	ASTM D5185m	0	9	9	
Molybdenum	ppm	ASTM D5185m	60	30	41	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	432	△ 50	
Calcium	ppm	ASTM D5185m	1070	697	<u>▲</u> 1827	
Phosphorus	ppm	ASTM D5185m	1150	496	△ 457	
Zinc	ppm	ASTM D5185m	1270	712	<u>▲</u> 885	
Sulfur	ppm	ASTM D5185m	2060	1422	2746	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	6	
Sodium	ppm	ASTM D5185m		15	10	
Potassium	ppm	ASTM D5185m	>20	4	5	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	5.1	7.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	16.7	
FLUID DEGRAD	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	10.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	7.1	



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

14.1

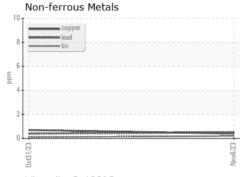
11.8

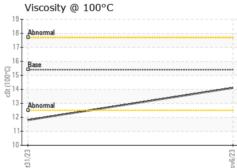
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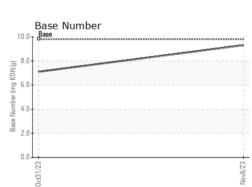
Ferrous Alloys

cSt

ASTM D445 15.4









Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10752796 Test Package : FLEET

: 06013652

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0095269

Received : 21 Nov 2023 Diagnosed : 24 Nov 2023 Diagnostician : Jonathan Hester GFL Environmental - 421 - Huntington Road Hauling 3204 Lower Huntington Rd FORT WAYNE, IN

US 46809 Contact: MICHAEL MUGG MMUGG@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)

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