

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 813110 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

ON SHP 15W40 (- GAL)	-	0ez2023	Dec2023		
SAMPLE INFOR	MATION	method	limit/base		history1	history2
Sample Number		Client Info		GFL0092602	GFL0092629	
Sample Date		Client Info		04 Dec 2023	16 Oct 2023	
Machine Age	hrs	Client Info		881	598	
Oil Age	hrs	Client Info		291	598	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.4	
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	>120	15	43	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>5	6	13	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	0	2	
Aluminum	ppm	ASTM D5185m	>20	2	5	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	10	54	
Tin	ppm	ASTM D5185m	>15	<1	3	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	168	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	69	118	
Manganese	ppm	ASTM D5185m	0	0	5	
Magnesium	ppm	ASTM D5185m	1010	978	686	
Calcium	ppm	ASTM D5185m	1070	1107	1391	
Phosphorus	ppm	ASTM D5185m	1150	993	712	
Zinc	ppm	ASTM D5185m	1270	1254	897	
Sulfur	ppm	ASTM D5185m	2060	2870	2279	
CONTAMINAN	TS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	10	▲ 71	
Sodium	ppm	ASTM D5185m		4	3	
Potassium	ppm	ASTM D5185m		2	13	
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.7	
Nitration	Abs/cm	*ASTM D7624		7.2	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	24.8	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	23.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	7.0	



10

Oct16/23

OIL ANALYSIS REPORT

scalar

scalar

*Visual

*Visual

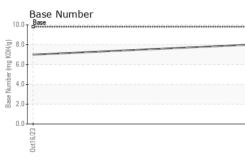
NONE

NONE

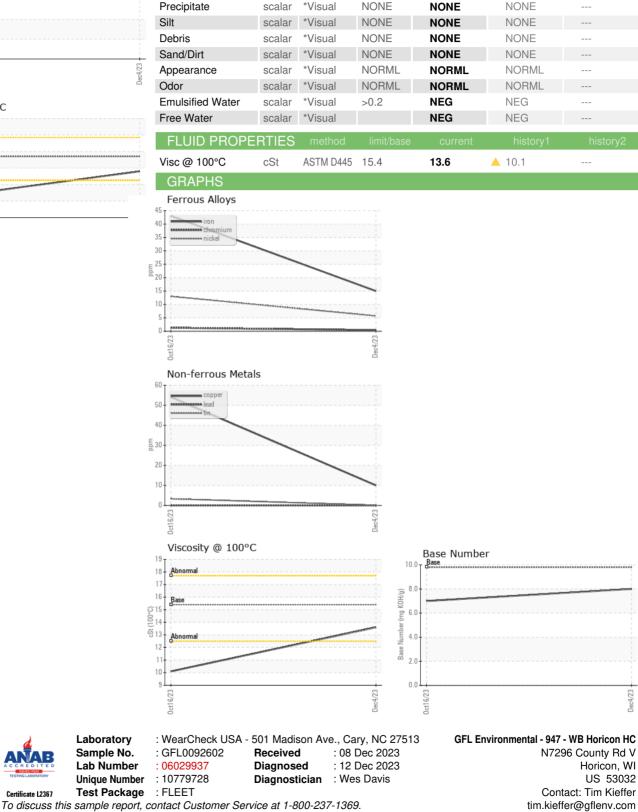
VISUAL

White Metal

Yellow Metal





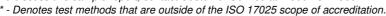


NONE

NONE

NONE

NONE



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Submitted By: See also GFL935 - Tim Kieffer

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