

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL

Recommendation

Resample at the next service interval to monitor.

Machine Id

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

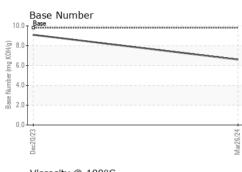
Fluid Condition

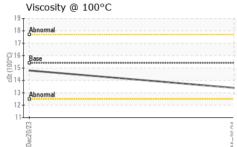
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

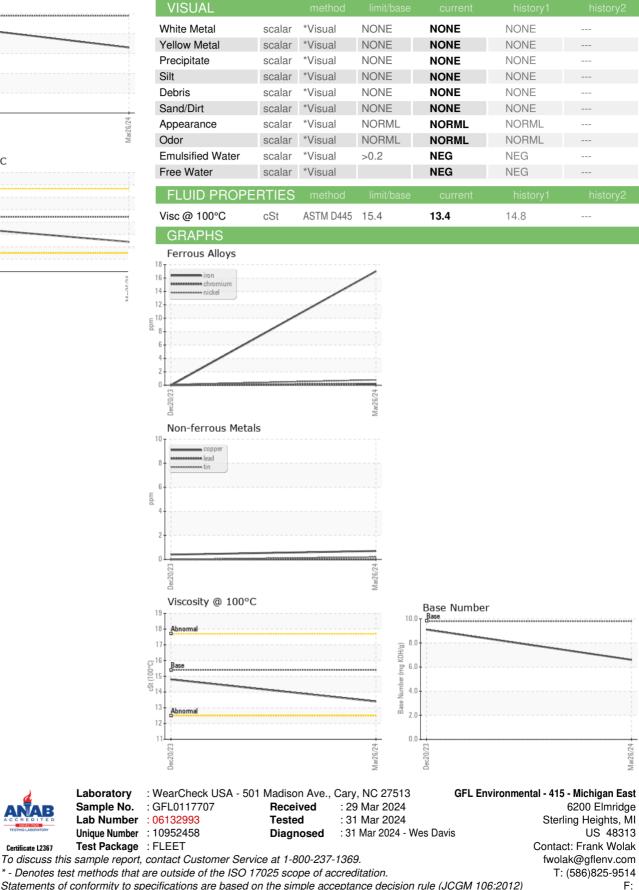
N SHP 15W40 (GAL					
•	,		Dec2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117707	GFL0105700	
Sample Date		Client Info		26 Mar 2024	20 Dec 2023	
Machine Age	mls	Client Info		29809	29005	
Oil Age	mls	Client Info		29005	29005	
Oil Changed		Client Info		N/A NORMAL	Not Changd	
Sample Status				-	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	17	0	
Chromium	ppm	ASTM D5185m		<1	0	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m		3	<1	
_ead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	
Fin (and a d'inne	ppm	ASTM D5185m	>15	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	0	5	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	55	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	902	952	
Calcium	ppm	ASTM D5185m	1070	1018	1043	
Phosphorus	ppm	ASTM D5185m	1150	977	1127	
Zinc Sulfur	ppm	ASTM D5185m	1270	1231	1292	
	ppm	ASTM D5185m	2060	3067	3262	
CONTAMINAN	IIS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	3	5	
Sodium	ppm	ASTM D5185m	0.6	4	2	
Potassium	ppm	ASTM D5185m	>20	2	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0	
Nitration	Abs/cm	*ASTM D7624	>20	8.7	4.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	17.1	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	12.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	9.1	



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

Certificate L2367