

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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.

AL)			1002 E-12022 Aug				
SAMPLE INFORI	MATION	method	limit/base	e current	history1	history2	
Sample Number		Client Info		GFL0111964	GFL0107939	GFL0107972	
Sample Date		Client Info		28 Feb 2024	06 Feb 2024	30 Jan 2024	
Machine Age	hrs	Client Info		5445	5301	5242	
Dil Age	hrs	Client Info		0	600	0	
Dil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	e current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method		NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	e current	history1	history2	
Iron	ppm	ASTM D5185m	>110	<1	7	6	
Chromium	ppm	ASTM D5185m		<1	0	<1	
Nickel	ppm		>2	0	0	0	
Titanium	ppm	ASTM D5185m	~_	0	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m		2	6	6	
Lead	ppm	ASTM D5185m	>45	0	0	<1	
Copper	ppm	ASTM D5185m		<1	<1	<1	
Tin	ppm		>4	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES	P. L.	method	limit/base	-	history1	history2	
Boron	nnm		0	3	1	<1	
Barium	ppm ppm	ASTM D5185m	•	0	0	0	
Molybdenum		ASTM D5185m	60	55	61	61	
Manganese	ppm ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	895	988	908	
Calcium	ppm	ASTM D5185m	1070	968	1087	1005	
Phosphorus	ppm	ASTM D5185m	1150	991	1048	1007	
Zinc	ppm			1205	1282	1144	
Sulfur	ppm	ASTM D5185m		2931	3040	2757	
CONTAMINAN	TS	method	limit/base	e current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	3	2	3	
Sodium	ppm	ASTM D5185m		<1	3	1	
Potassium	ppm	ASTM D5185m	>20	1	3	3	
INFRA-RED		method	limit/base	e current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624		5.4	7.3	7.0	
Sulfation	Abs/.1mm	*ASTM D7415		18.0	19.1	19.0	
FLUID DEGRA	DATION	method	limit/base	e current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	14.6	14.4	
Base Number (BN)	mg KOH/g		9.8	8.6	7.7	7.9	
Dase Number (DN)	niy Kon/y	ASTIVI D2030	9.0	0.0	1.1	1.5	

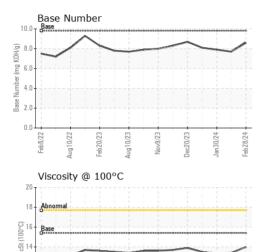


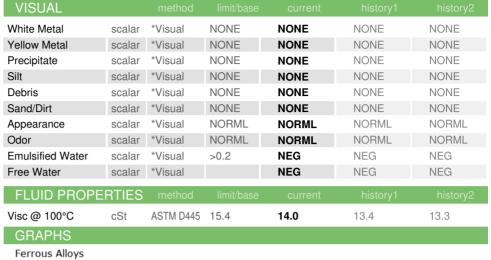
Ba

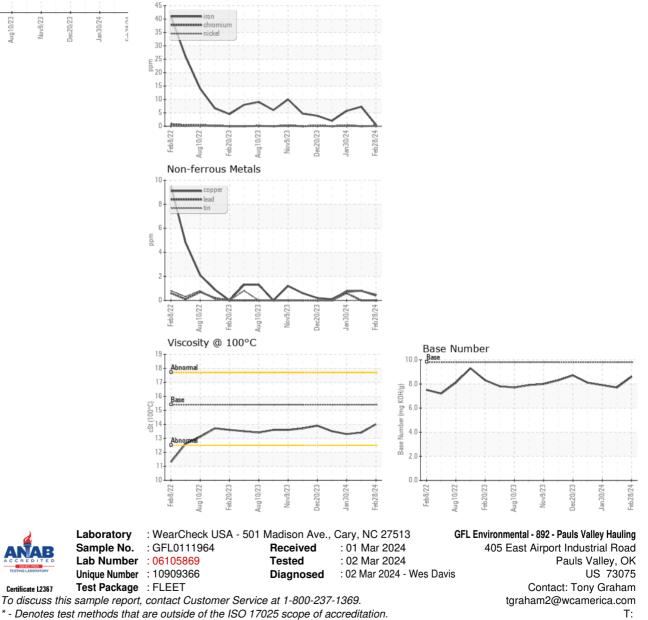
eb8/77

12

OIL ANALYSIS REPORT









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

F: