

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 712046

Fluid

Component **Diesel Engine**

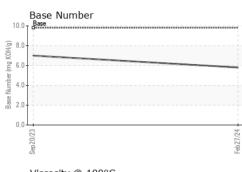
PETRO CANADA DURON SHP 15W40 (--- GAL)

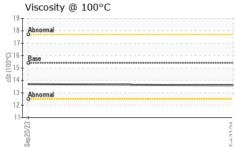
PETRO CANADA DU		- UAL)		Sep2023	Feb2024		
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0103547	GFL0085347	
Resample at the next service interval to monitor.	Sample Date		Client Info		27 Feb 2024	20 Sep 2023	
Vear	Machine Age	hrs	Client Info		4147	0	
ll component wear rates are normal.	Oil Age	hrs	Client Info		600	0	
	Oil Changed	111.5	Client Info		Changed	0 N/A	
ontamination	-		Client Inio		NORMAL		
There is no indication of any contamination in the oil. Fuid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	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
	Iron	ppm	ASTM D5185m	>120	12	8	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	2	2	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		1	0	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m		_ <1	<1	
	Vanadium		ASTM D5185m	>15	<1	<1	
	Cadmium	ppm ppm	ASTM D5185m		<1	<1	
		ppm		limit/base	-		history ()
	ADDITIVES		method			history1	history2
	Boron	ppm	ASTM D5185m		0	<1	
	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m		64	60	
	Manganese	ppm	ASTM D5185m	0	<1	<1	
	Magnesium	ppm	ASTM D5185m	1010	958	1024	
	Calcium	ppm	ASTM D5185m	1070	1075	1106	
	Phosphorus	ppm	ASTM D5185m	1150	913	980	
	Zinc	ppm	ASTM D5185m	1270	1194	1271	
	Sulfur	ppm	ASTM D5185m	2060	2625	3387	
	CONTAMINAN	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	3	
	Sodium	ppm	ASTM D5185m		5	3	
	Potassium	ppm	ASTM D5185m	>20	0	<1	
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.6	0.4	
	Nitration	Abs/cm	*ASTM D7624		9.6	7.7	
	Sulfation	Abs/.1mm	*ASTM D7415		22.0	19.9	
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation		*ASTM D7414		17.9	16.3	
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8	7.0	

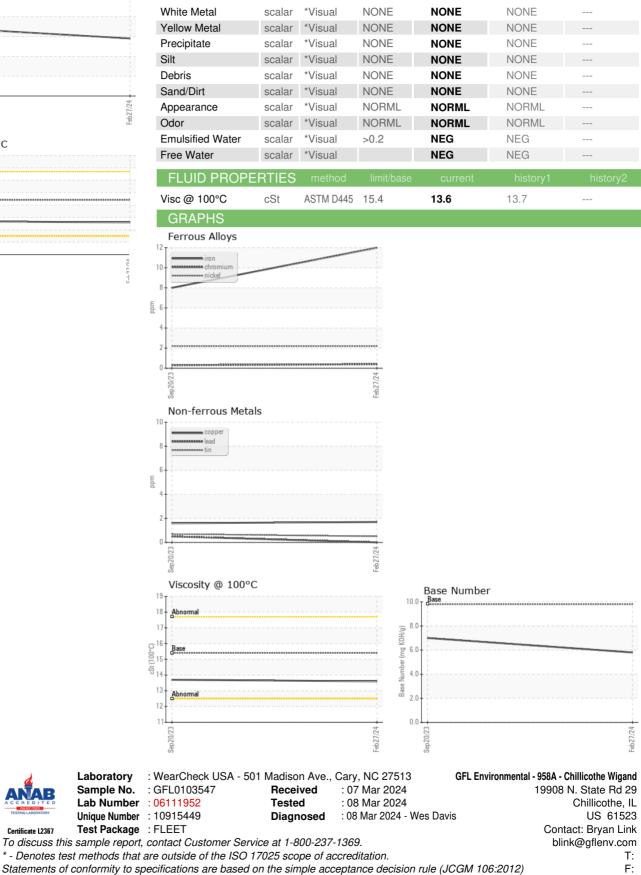


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VISUAL







Certificate L2367