

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id 4679M Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (5 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0115060	GFL0106704	GFL0097690
	Sample Date		Client Info		14 May 2024	11 Feb 2024	29 Nov 2023
	Machine Age	hrs	Client Info		14847	14207	13597
	Oil Age	hrs	Client Info		640	605	566
	Filter Age	hrs	Client Info		640	605	566
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>90	15	9	9
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	7	2	2
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	2	1
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>\</u> 25	7	5	5
CONTAININATION	Potassium	ppm	ASTM D5185m		, 11	1	2
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	8.6	8.0
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	19.3	19.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Codium				6	4	4
	Sodium	ppm	ASTM D5185m	0	6	4	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		2	3	2
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		59	62	59
	Manganese	ppm			<1	0	<1
	Magnesium	ppm	ASTM D5185m		973	971	963
	Calcium	ppm	ASTM D5185m		1033	1155	1074
	Phosphorus	ppm	ASTM D5185m		1018	1131	1042
	Zinc	ppm	ASTM D5185m		1309	1371	1282
	Sulfur	ppm	ASTM D5185m		3473	3273	2770
	Oxidation	Abs/.1mm	*ASTM D7414		17.4	16.2	15.8
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	7.5	7.6

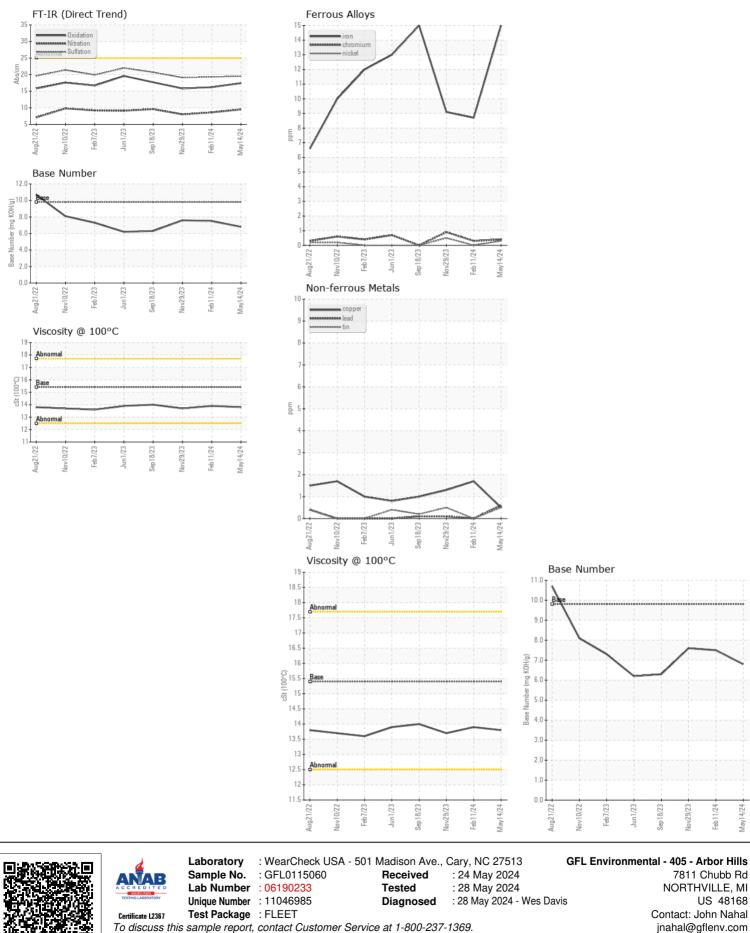
Visc @ 100°C cSt

ASTM D445 15.4

13.8

13.7

13.9



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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