

OIL ANALYSIS REPORT

Sample Rating Trend





(61169Z) S0916A-Suamico **MACK 420051**

Component Front Center Diesel Engine

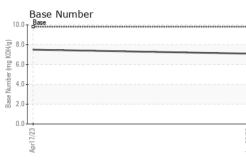
PETRO CANADA DURON SHP 15W40 (44 QTS)

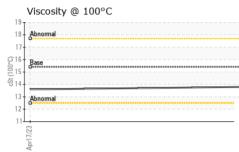
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
commendation	Sample Number		Client Info		GFL0074828	GFL0074806	
sample at the next service interval to monitor.	Sample Date		Client Info		29 Jun 2023	17 Apr 2023	
ar	Machine Age	hrs	Client Info		4963	4555	
component wear rates are normal.	Oil Age	hrs	Client Info		382	548	
ntamination	Oil Changed		Client Info		Changed	Changed	
re is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	
	CONTAMINAT	ION	method	limit/base	current	history1	history
d Condition	Fuel		WC Method	>3.0	<1.0	<1.0	
ne BN result indicates that there is suitable kalinity remaining in the oil. The condition of the I is suitable for further service.	Glycol		WC Method		NEG	NEG	
	WEAR METAL	.S	method	limit/base	current	history1	history
	Iron	ppm	ASTM D5185m	>120	9	17	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m	>2	0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>20	1	0	
	Lead	ppm	ASTM D5185m	>40	0	<1	
	Copper	ppm	ASTM D5185m	>330	0	8	
	Tin	ppm	ASTM D5185m	>15	0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history
	Boron	ppm	ASTM D5185m	0	4	17	
	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m	60	59	67	
	Manganese	ppm	ASTM D5185m	0	0	<1	
	Magnesium	ppm	ASTM D5185m	1010	944	897	
	Calcium	ppm	ASTM D5185m	1070	1120	1107	
	Phosphorus	ppm	ASTM D5185m	1150	1033	982	
	Zinc	ppm	ASTM D5185m	1270	1273	1189	
	Sulfur	ppm	ASTM D5185m	2060	3651	2911	
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	2	4	
	Sodium	ppm	ASTM D5185m		2	3	
			ASTM D5185m	>20	0	2	
	Potassium	ppm					
			method	limit/base		history1	history
	Potassium	ppm %	*ASTM D7844	>4	0.3	0.5	history2
	Potassium INFRA-RED Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>4 >20		0.5 8.0	, in the second s
	Potassium INFRA-RED Soot %	% Abs/cm	*ASTM D7844	>4 >20	0.3	0.5	
	Potassium INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20	0.3 10.0 21.6	0.5 8.0	
	Potassium INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm DATION	*ASTM D7844 *ASTM D7624 *ASTM D7415	>4 >20 >30 limit/base	0.3 10.0 21.6	0.5 8.0 19.6	

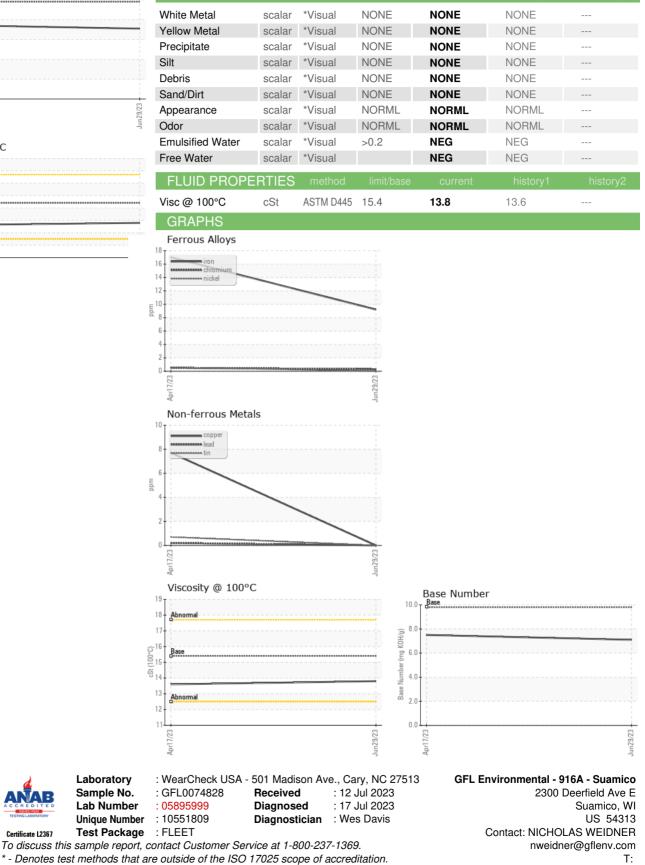


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VISUAL







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

Certificate L2367

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