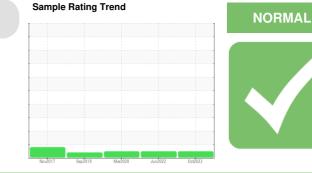


OIL ANALYSIS REPORT







VOLVO EC380DLC 500-194 Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (15 GAL)

DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0106841	PCA0060067	PCA0018127
Resample at the next service interval to monitor.	Sample Date		Client Info		03 Oct 2023	22 Jun 2022	06 Mar 2020
Wear	Machine Age	hrs	Client Info		3000	2950	2438
All component wear rates are normal.	Ű	hrs	Client Info		500	550	500
	Oil Changed		Client Info		Changed	Changed	Changed
Contamination	Sample Status				NORMAL	NORMAL	NORMAL
There is no indication of any contamination in the oil.							
Fluid Condition	CONTAMINATIO	ON	method	limit/base	current	history1	history2
The BN result indicates that there is suitable	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
alkalinity remaining in the oil. The condition of the	Glycol		WC Method		NEG	NEG	NEG
oil is suitable for further service.	WEAR METALS	5	method	limit/base	current	history1	history2
		ppm	ASTM D5185m	>100	11	17	7
	Chromium	ppm	ASTM D5185m		<1	<1	<1
		ppm	ASTM D5185m		1	4	2
	Titanium		ASTM D5185m	~_	، <1	0	0
		ppm ppm	ASTM D5185m	>2	0	2	0
	Aluminum		ASTM D5185m		4	5	3
	Lead	ppm	ASTM D5185m		4	3	2
		ppm	ASTM D5185m		6	12	17
	Copper Tin	ppm	ASTM D5185m		1	3	1
	Antimony	ppm	ASTM D5185m	>10			0
	Vanadium	ppm	ASTM D5185m		 <1	0	0
	Cadmium	ppm	ASTM D5185m		<1	<1	0
		ppm					
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	<1	4	4
	Barium	ppm	ASTM D5185m	0	<1	0	0
	Molybdenum	ppm	ASTM D5185m	60	64	58	50
	Manganese	ppm	ASTM D5185m	0	<1	2	<1
	Magnesium	ppm	ASTM D5185m	1010	1009	929	822
	Calcium	ppm	ASTM D5185m	1070	1087	1049	929
	Phosphorus	ppm	ASTM D5185m	1150	1091	968	904
	Zinc	ppm	ASTM D5185m	1270	1327	1173	982
	Sulfur	ppm	ASTM D5185m	2060	3787	3473	3152
	Lithium	ppm	ASTM D5185m				
	CONTAMINAN	٢S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	4	3
	Sodium	ppm	ASTM D5185m		3	2	2
	Potassium	ppm	ASTM D5185m	>20	4	8	6
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.2	0.6	0.2
		Abs/cm	*ASTM D7624		8.0	11.5	8.5
	Sulfation		*ASTM D7415		18.6	22.0	18.6
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation		*ASTM D7414		15.2	20.9	15.6
		-rus/.111111	AGTN D/414	>20	15.2	20.3	10.0

Base Number (BN) mg KOH/g ASTM D2896 9.8

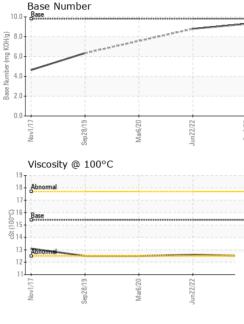
Contact/Location: MARK STEFFEL - GEMVAL

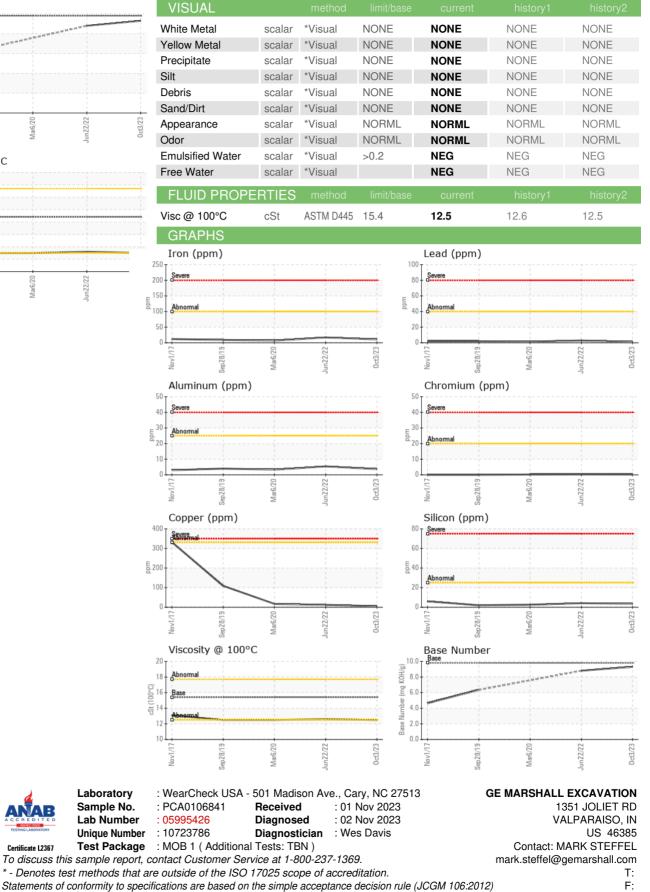
8.8

9.3



OIL ANALYSIS REPORT





Certificate L2367

Contact/Location: MARK STEFFEL - GEMVAL