

Machine Id

VOLVO L120E 8315 (S/N 64455)

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0899182	WC0862844	WC0816342
	Sample Date		Client Info		27 Jun 2024	11 Oct 2023	02 Jun 2023
	Machine Age	hrs	Client Info		4238	3642	3188
	Oil Age	hrs	Client Info		596	454	406
	Filter Age	hrs	Client Info		596	454	406
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m		40	51	45
The aluminum level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	5	6
	Nickel	ppm	ASTM D5185m	>10	<1	<1	1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>	<u> </u>
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m	>15	5	5	7
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon			. 00	E	C	0
	Potassium	ppm	ASTM D5185m		5 2	6 0	8
There is no indication of any contamination in the oil.	Fuel	ppm	ASTM D5185m				
			WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624		8.7	8.1	7.8
	Sulfation	Abs/.1mm	*ASTM D7415		19.1	18.7	18.8
	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	1	0
	Boron	ppm	ASTM D5185m	1	5	1	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		60	61	58
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		906	973	877
	Calcium	ppm	ASTM D5185m		1174	1133	1117
	Phosphorus	ppm	ASTM D5185m		1082	1077	999
	Zinc		ASTM D5185m		1307	1301	1213
	Sulfur	ppm ppm	ASTM D5185m		3570	3190	2993
	Oxidation	Abs/.1mm	*ASTM D5185111		15.1	15.0	14.4
	Base Number (BN)	ilig KOH/g	ASTIVI D2896	9.0	7.4	8.1	8.9

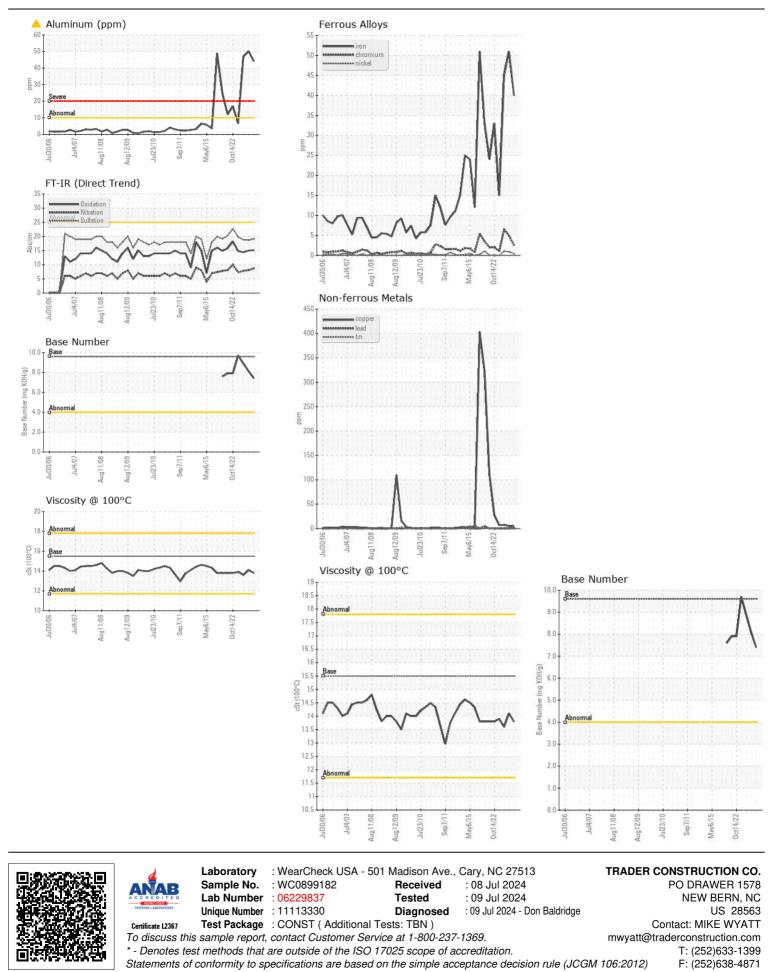
Visc @ 100°C cSt

ASTM D445 15.5

14.1

13.6

13.8



Contact/Location: MIKE WYATT - TRANEW