

OIL ANALYSIS REPORT

Machine Id **TERRAGATOR TG8400B 477** Component **Diesel Engine** Fluid

TRC MOLY XL PRO-SPEC IV XP 15W40 (--- GAL)

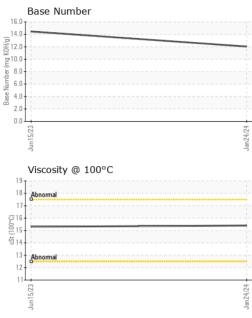
INC WOLT AL PRO-3FEC IV AF 15W40 (GA	L)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06077836	TR05879063	
	Sample Date		Client Info		24 Jan 2024	15 Jun 2023	
	Machine Age	hrs	Client Info		3200	0	
	Oil Age	hrs	Client Info		400	400	
	Filter Age	hrs	Client Info		400	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	NORMAL	
				100		0	
WEAR	Iron	ppm	ASTM D5185m		7	6	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium Silver	ppm	ASTM D5185m	. 0	<1	<1	
	Aluminum	ppm	ASTM D5185m		0	0	
	Lead	ppm	ASTM D5185m		3 1		
		ppm	ASTM D5185m ASTM D5185m		43	<1 19	
	Copper Tin	ppm ppm	ASTM D5185m		43 <1	<1	
	Vanadium	ppm	ASTM D5185m	>15	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		Jouran	Vioudi	NONE		NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	
	Potassium	ppm	ASTM D5185m	>20	7	2	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	9.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	21.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	
	Boron	ppm	ASTM D5185m		17	10	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		122	120	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		53	52	
	Calcium	ppm	ASTM D5185m		4634	4809	
	Phosphorus	ppm	ASTM D5185m		929	943	
	Zinc	ppm	ASTM D5185m		1115	1103	
	Sulfur	ppm	ASTM D5185m		4434	4421	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	12.8	
	Base Number (BN)	mg KOH/g	ASTM D2896		12.04	14.46	
	Vier (2 10000	- 01				45.0	

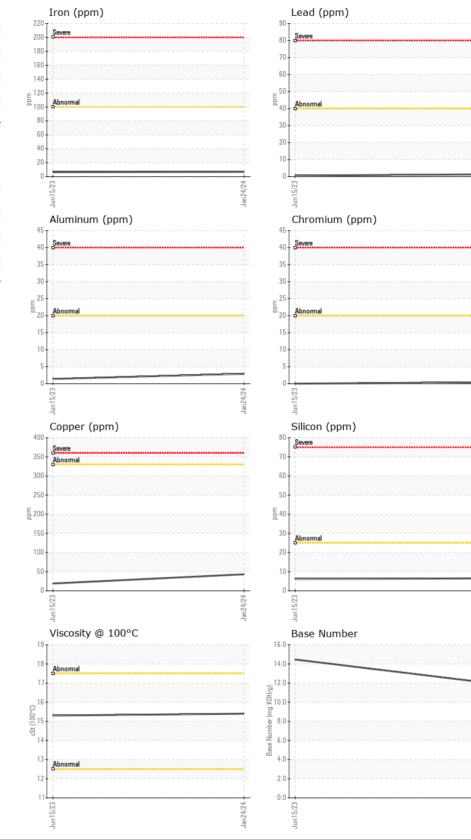
Visc @ 100°C cSt

ASTM D445

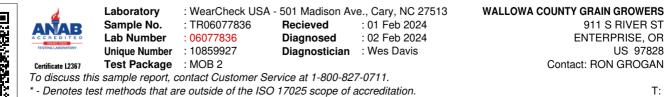
15.3

15.4









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

Contact/Location: RON GROGAN - WALENT