

OIL ANALYSIS REPORT

## Machine Id 78 Component Rear Diesel Engine

## TRC MOLY XL PRO-SPEC III SYNTHETIC15W40 (39 QTS)

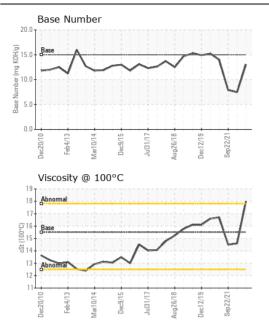
THE WOLT AL PHO-SPEC III STNTHETICISW4	0 (05 010)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR0000753	TR0000325	TR0000228
	Sample Date		Client Info		10 Apr 2023	14 Dec 2021	22 Sep 2021
	Machine Age	hrs	Client Info		22307	19148	19804
	Oil Age	hrs	Client Info		2	1	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status				NORMAL	ABNORMAL	ABNORMAI
WEAR	Iron	ppm	ASTM D5185m	>100	74	42	7
	Chromium	ppm	ASTM D5185m	>20	1	2	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		2	8	1
	Lead	ppm	ASTM D5185m		25	4	1
	Copper	ppm	ASTM D5185m		21	25	5
	Tin	ppm	ASTM D5185m		3	5	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	<b>4</b> 91	<b>▲</b> 62
	Potassium	ppm	ASTM D5185m		2	8	4
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.3	0.1
	Nitration	Abs/cm	*ASTM D7624		15.2	9.8	6.5
	Sulfation	Abs/.1mm	*ASTM D7415		27.6	22.2	19.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	36	29
	Boron	ppm	ASTM D5185m		<1	43	109
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		0	0	1
	Molybdenum	ppm	ASTM D5185m		111	29	2
	Manganese	ppm	ASTM D5185m		1	2	<1
	Magnesium	ppm	ASTM D5185m		51	593	657
	Calcium	ppm	ASTM D5185m	4500	4851	2083	1321
	Phosphorus	ppm	ASTM D5185m		944	1074	1019
	Zinc	ppm	ASTM D5185m	1400	1218	1178	1106
	Sulfur	ppm	ASTM D5185m	1400	4637	3282	3294
	Oxidation	Abs/.1mm	*ASTM D510311	>25	25.6	15.7	13
	Base Number (BN)				13.04	7.47	7.89
		nig Koniy		10	10.04	1.47	1.05

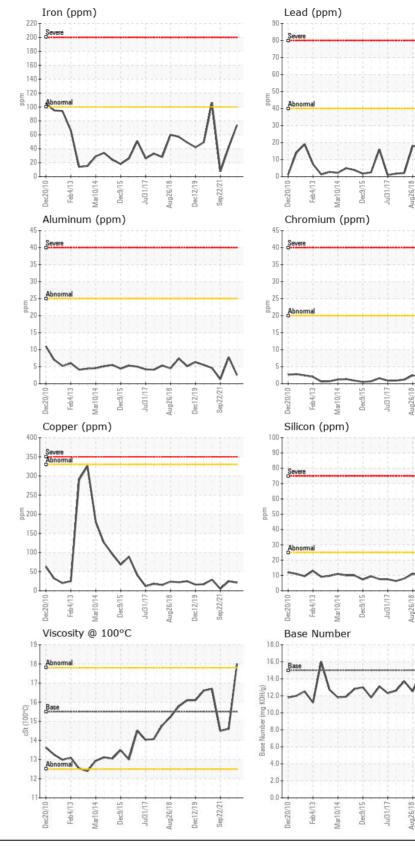
Visc @ 100°C cSt ASTM D445 15.5

14.6

18.0

14.5







S SCONCRETE MATERIALS LLC P.O. BOX 23283 BUILLHEAD CITY AZ

BULLHEAD CITY, AZ US 86439 Contact: MARK OPHEIM

Dec12/19

Sen22/21

Dec12/19 Sen22/21

Dec12/19

Sen22/2

To discuss this sample report, contact Customer Service at 1-800-827-0711.

: TR0000753

\* - 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) F: (928)754-1991

Received

Diagnosed

Tested

: 12 Apr 2023

: 14 Apr 2023

: 15 Apr 2023 - Don Baldridge

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Certificate L2367

Laboratory

Sample No.

Lab Number : 05818331

Unique Number : 10426414

Test Package : MOB 2

Submitted By: SERVICE MANAGER

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