

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

OIL ANALYSIS REPORT

Machine Id LINKBELT 411 Component Diesel Engine Filuid TRC MOLY XL PRO-SPEC IV 15W40 (24 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06158500	TR05767360	TR05525863
Resample at the next service interval to monitor.	Sample Date		Client Info		05 Feb 2024	22 Nov 2022	15 Feb 2022
	Machine Age	mls	Client Info		9259	8087	7378
	Oil Age	mls	Client Info		500	500	250
	Filter Age	mls	Client Info		250	250	250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>75	18	15	13
	Chromium	ppm	ASTM D5185m	>5	1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>15	5	3	3
	Lead	ppm	ASTM D5185m	>25	1	2	<1
	Copper	ppm	ASTM D5185m	>100	2	2	2
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	7	7
	Potassium	ppm	ASTM D5185m	-	4	2	4
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.6	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	13.8	13.1	12.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.6	26.7	24.0
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	3
	Boron	ppm	ASTM D5185m		0	0	2
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	0
	Molybdenum	ppm	ASTM D5185m		135	132	120
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		19	100	25
	Calcium	ppm	ASTM D5185m	1300	4514	4321	4401
	Phosphorus	ppm	ASTM D5185m		1027	940	975
	Zinc	ppm	ASTM D5185m	1300	1118	1217	1180
	Sulfur	ppm	ASTM D5185m		4805	4983	3935
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	17.8	14.7
	Base Number (BN)				10.72	9.84	12.8
		- 04	AOTA DAAS	15.5	45.0	15.0	15.0

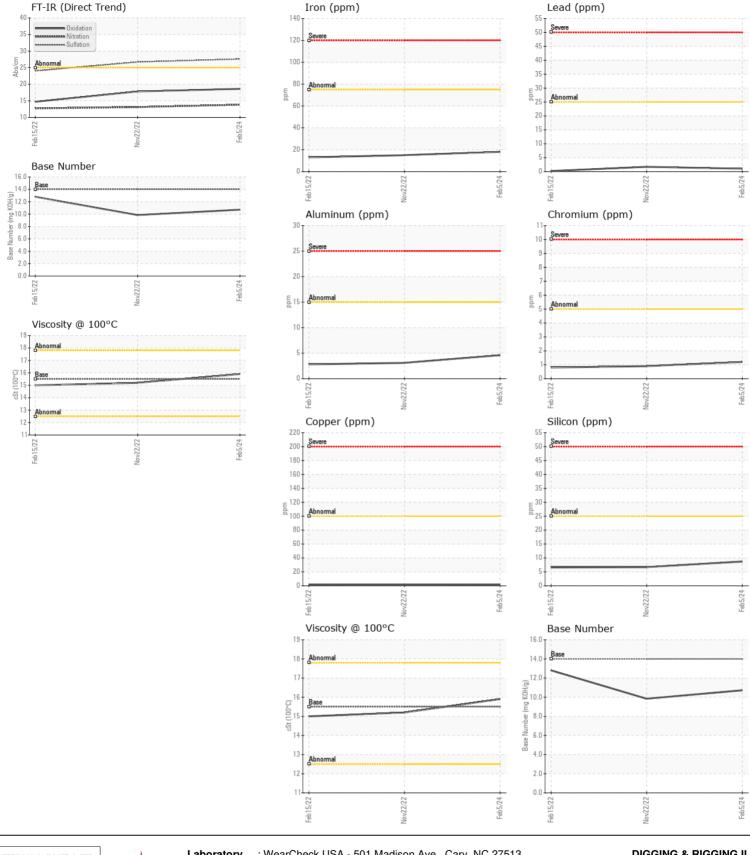
Visc @ 100°C cSt

ASTM D445 15.5

15.2

15.0

15.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **DIGGING & RIGGING II** Sample No. Received **10 CHRISTINA COURT** : TR06158500 : 23 Apr 2024 Lab Number : 06158500 SPARROWS POINT, MD Tested : 24 Apr 2024 Unique Number : 10993923 : 24 Apr 2024 - Wes Davis US 21219 Diagnosed Test Package : MOB 2 Contact: Service Manager Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. * - 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)

T: F:

Contact/Location: Service Manager - DIGSPA Page 2 of 2