

Machine Id 75 omponer **Rear Diesel Engine** TRC MOLY XL PRO-SPEC IV XP 15W40 (10 GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interva to monitor.

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The copper level is abnormal. Elemental level of copper (Cu) probably due to leaching of copper from copper components (i.e. cooling core) by the oil additives. All other component wear rates are normal.

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-

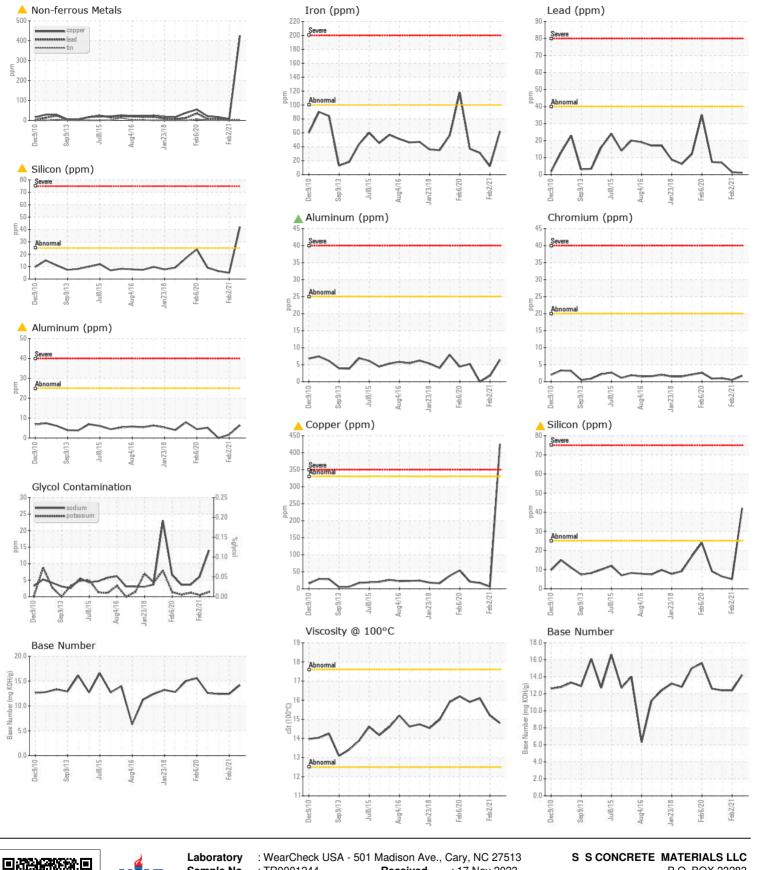
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR0001244	TR05191100	TR05120252
e ⁄al	Sample Date		Client Info		14 Nov 2023	02 Feb 2021	19 Oct 2020
	Machine Age	hrs	Client Info		19490	17779	17145
	Oil Age	hrs	Client Info		665	0	0
	Filter Age	hrs	Client Info		665	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Not Change	Not Change
	Sample Status				ABNORMAL	NORMAL	NORMAL
	Iron	ppm	ASTM D5185m	>100	62	12	31
	Chromium	ppm	ASTM D5185m	>20	2	<1	1
у	Nickel	ppm	ASTM D5185m	>2	1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>25	6	2	0
	Lead	ppm	ASTM D5185m	>40	1	1	7
	Copper	ppm	ASTM D5185m	>330	425	6	17
	Tin	ppm	ASTM D5185m	>15	2	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>25	4 2	5	6
	Potassium	ppm	ASTM D5185m	>20	1	<1	1
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		0.0	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	13.8	14.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	24.2	29
	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
	Codium				14	C	A
e	Sodium	ppm	ASTM D5185m		14	6 E	4
	Boron	ppm	ASTM D5185m		2	5	36
	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		117	152	175
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		19	27	141
	Calcium	ppm	ASTM D5185m		3961	4850	5060
	Phosphorus	ppm	ASTM D5185m		901	1006	1059
	Zinc	ppm	ASTM D5185m		1028	1141	1231
	Sulfur	ppm	ASTM D5185m	05	4107	3998	3898
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	16	22
	Base Number (BN)	mg KOH/g	ASTM D2896		14.20	12.4	12.4
	Visc @ 100°C	cSt	ASTM D445		14.8	15.2	16.1

CONTAMINATION

silicate (coarse dirt) ingress.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Sample No. : TR0001244 : 17 Nov 2023 P.O. BOX 23283 Received Lab Number : 06011657 : 21 Nov 2023 BULLHEAD CITY, AZ Tested Unique Number : 10750801 : 21 Nov 2023 - Don Baldridge US 86439 Diagnosed Test Package : MOB 2 (Additional Tests: Glycol) Contact: MARK OPHEIM 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) F: (928)754-1991

Submitted By: SNS INVENTORY

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