

OIL ANALYSIS REPORT

AUTOCAR AUTOCAR Component Diesel Engine

TRC MOLY XL PRO-SPEC IV XP 15W40 (10 GAL)

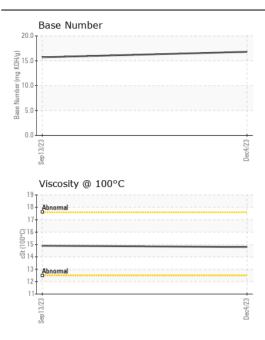
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06031823	TR05957154	
	Sample Date		Client Info		04 Dec 2023	13 Sep 2023	
	Machine Age	mls	Client Info		382000	5000	
	Oil Age	mls	Client Info		6000	5000	
	Filter Age	mls	Client Info		6000	5000	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>86	14	14	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>3	<1	<1	
	Nickel	ppm	ASTM D5185m	>3	0	0	
	Titanium	ppm	ASTM D5185m	>2	0	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>15	4	<1	
	Lead	ppm	ASTM D5185m		0	1	
	Copper	ppm	ASTM D5185m	>250	2	4	
	Tin	ppm	ASTM D5185m	>2	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	34	34	
	Potassium	ppm	ASTM D5185m	>20	2	4	
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0	
	Nitration	Abs/cm	*ASTM D7624	>20	22.1	9.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	41.2	20.4	
	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		4	6	
	Boron	ppm	ASTM D5185m		14	15	
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	
	Molybdenum	ppm	ASTM D5185m		108	113	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		21	23	
	Calcium	ppm	ASTM D5185m		4143	4422	
	Phosphorus	ppm	ASTM D5185m		924	942	
	Zinc	ppm	ASTM D5185m		1070	1118	
	Sulfur	ppm	ASTM D5185m		4331	5131	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	34.9	12.3	
	Base Number (BN)			- 20	16.80	15.71	
		ing itoniy	1011102030		10.00	10.71	

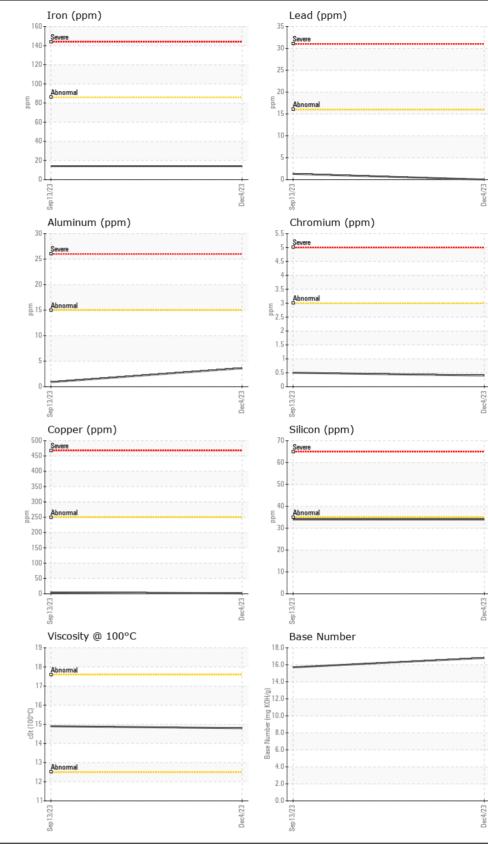
Visc @ 100°C cSt

ASTM D445

14.9

14.8





SPRAGUE RANCH Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 11 Dec 2023 6907 ROUTE 14 Sample No. : TR06031823 Received Lab Number : 06031823 : 15 Dec 2023 BROOKFIELD, VT Tested Unique Number : 10781614 : 15 Dec 2023 - Jonathan Hester US 05036 Diagnosed Test Package : MOB 2 Contact: SCOTT BURRELL 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Contact/Location: SCOTT BURRELL - SPRBROTR