

Machine Id 6 (S/N 1GD495SEY0MF100552) Component Diesel Engine

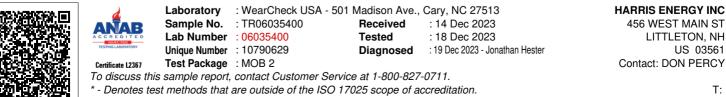
TRC MOLY XL PRO-SPEC IV HD SYN 5W40 (1 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06035400		
	Sample Date		Client Info		27 Nov 2023		
	Machine Age	hrs	Client Info		21900		
	Oil Age	hrs	Client Info		10900		
	Filter Age	hrs	Client Info		10900		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	1 38		
	Chromium	ppm	ASTM D5185m		3		
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m		-3 <1		
	Titanium	ppm	ASTM D5185m	>4	<1		
	Silver		ASTM D5185m	. 2	<1 <1		
	Aluminum	ppm	ASTM D5185m		12		
		ppm					
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		43		
	Tin	ppm	ASTM D5185m	>15	4		
	Vanadium	ppm	ASTM D5185m		<1 NONE		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m		21		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		39		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	1.4		
	Nitration	Abs/cm	*ASTM D7624	>20	21.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m		6		
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		
	Molybdenum	ppm	ASTM D5185m		98		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		89		
	Calcium	ppm	ASTM D5185m	4500	3864		
	Phosphorus	ppm	ASTM D5185m		707		
	Zinc	ppm	ASTM D5185m	1200	854		
	Sulfur	ppm	ASTM D5185m	1200	3478		
	Oxidation	Abs/.1mm	*ASTM D3185111	>25	28.8		
	Base Number (BN)		ASTM D7414 ASTM D2896		20.0 9.44		
		ing NOTI/g	101102030	15	3.44		

Visc @ 100°C cSt ASTM D445 15

14.7





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

T: F:

Contact/Location: DON PERCY - HARLIT