

Machine Id CATERPILLAR 558 10-18 (S/N F5L00339) Component Diesel Engine Fluid TRC PRO-SPEC V SYN BLEND 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06177394	TR06108223	
	Sample Date		Client Info		18 Apr 2024	19 Feb 2024	
	Machine Age	hrs	Client Info		2036	1588	
	Oil Age	hrs	Client Info		448	437	
	Filter Age	hrs	Client Info		448	437	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m		20	18	
The aluminum level is abnormal. All other component wear rates are	Chromium	ppm	ASTM D5185m	>20	2	1	
normal.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		🔺 44	4 34	
	Lead	ppm	ASTM D5185m		<1	1	
	Copper	ppm	ASTM D5185m	>330	6	4	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon		ASTM D5185m	. 05	c	E	
CONTAMINATION		ppm			6 6	5 7	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method			<1.0	
					<1.0		
	Water		WC Method WC Method	>0.2	NEG	NEG	
	Glycol	0/		0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.6	0.5 7.9	
	Nitration	Abs/cm	*ASTM D7624	>20	8.0		
	Sulfation	Abs/.1mm	*ASTM D7415		19.3	18.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance Odor	scalar	*Visual *Visual	NORML	NORML	NORML	
		scalar		NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	1	
	Boron	ppm	ASTM D5185m		0	0	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m		2	2	
	Manganese	ppm	ASTM D5185m		- <1	_ <1	
	Magnesium	ppm	ASTM D5185m		26	10	
	Calcium	ppm	ASTM D5185m		2528	2454	
	Phosphorus	ppm	ASTM D5185m		1092	966	
	Zinc	ppm	ASTM D5185m		1144	1113	
	Sulfur	ppm	ASTM D5185m		4428	3859	
	Outlet:		*AOTH DOTODI	05		0000	

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

11.1

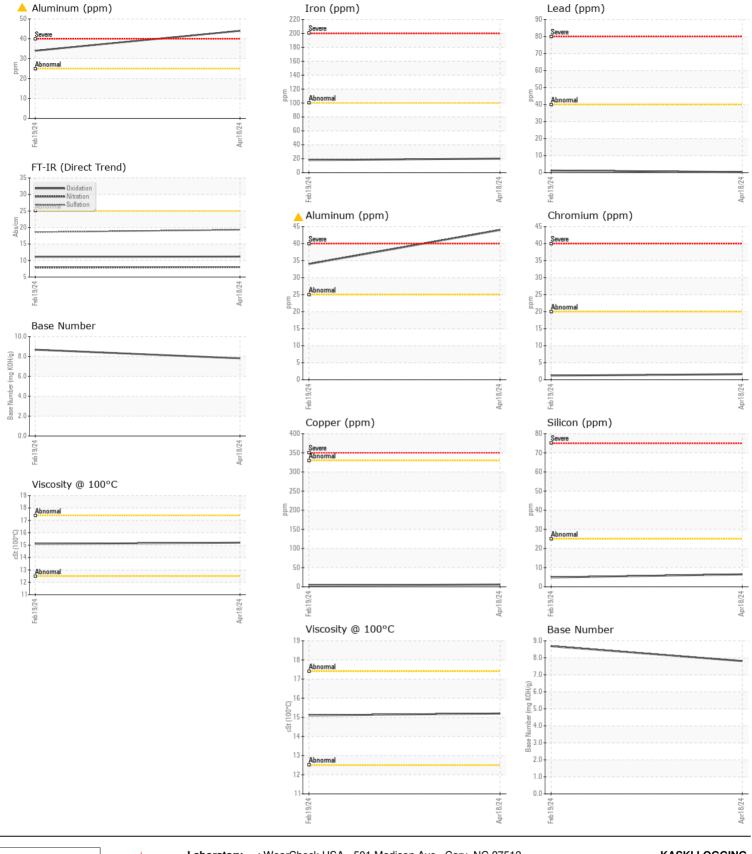
8.68

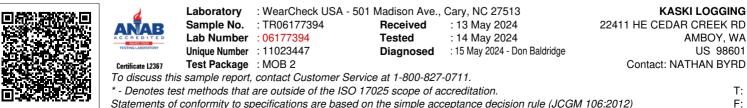
15.1

11.2

7.81

15.2





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

Contact/Location: NATHAN BYRD - KASAMB Page 2 of 2