

Machine Id 18356 Component Diesel Engine DIESEL ENGINE OIL SAE 15W40 (--- QTS)

REC		DAT	ION	

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

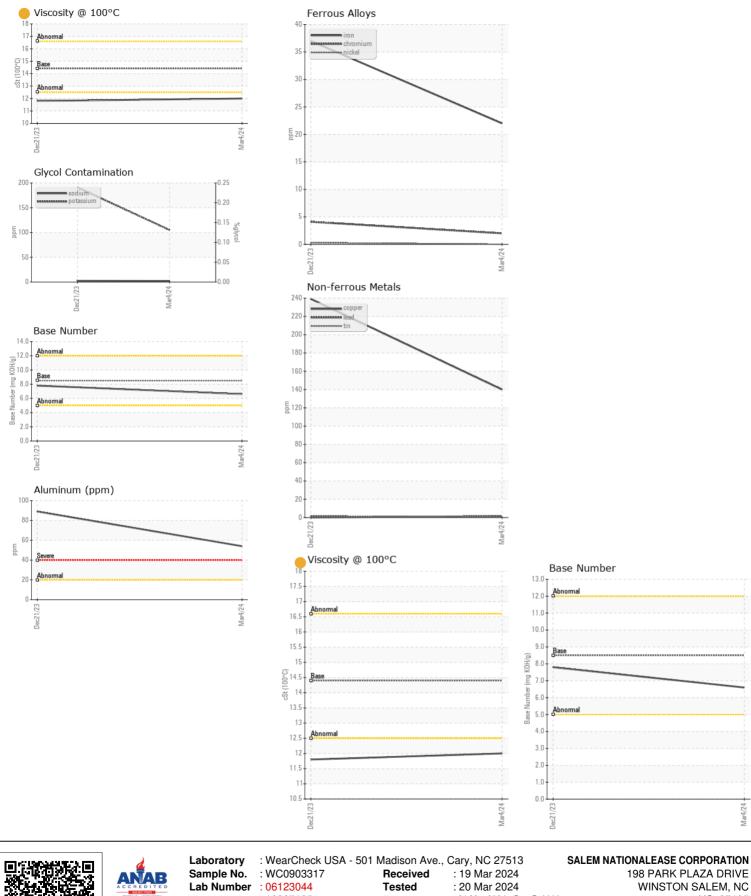
CONTAMINATION

FLUID CONDITION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	t	UOM	Method	Limit/Abn	Current	History1	History2
Sam	ple Number		Client Info		WC0903317	WC0852254	
Sam	nple Date		Client Info		04 Mar 2024	21 Dec 2023	
Mac	chine Age	mls	Client Info		0	45676	
Oil A	Age	mls	Client Info		0	0	
Filte	er Age	mls	Client Info		0	0	
Oil (Changed		Client Info		Changed	Changed	
Filte	er Changed		Client Info		Changed	Changed	
Sam	nple Status				ATTENTION	ATTENTION	
Iron		ppm	ASTM D5185m	>100	22	37	
-	omium	ppm	ASTM D5185m	>20	2	4	
Nick	-	ppm	ASTM D5185m	>4	0	<1	
	nium	ppm	ASTM D5185m		0	0	
Silve	-	ppm	ASTM D5185m	>3	0	<1	
	ninum	ppm	ASTM D5185m	>20	54	89	
Lea	-	ppm	ASTM D5185m	>40	1	0	
Сор	per	ppm	ASTM D5185m	>330	140	239	
Tin		ppm	ASTM D5185m	>15	<1	2	
	adium	ppm	ASTM D5185m		0	0	
Whi	te Metal	scalar	*Visual	NONE	NONE	NONE	
Yell	ow Metal	scalar	*Visual	NONE	NONE	NONE	
0:::-				05	F	~	
Silic		ppm	ASTM D5185m	>25	5 105	5	
	assium	ppm	ASTM D5185m	>20		191	
Fue			WC Method	>5	<1.0	0.2	
Wat			WC Method	>0.2	NEG	NEG	
Glyc		0/	WC Method	0	NEG	NEG	
Soo		%	*ASTM D7844	>3	0.4	0.4	
	ation	Abs/cm	*ASTM D7624	>20	7.6	8.6	
	ation	Abs/.1mm	*ASTM D7415	>30	21.4	20.9	
Silt	ut a	scalar	*Visual	NONE	NONE	NONE	
Deb		scalar	*Visual	NONE	NONE	NONE	
	d/Dirt	scalar	*Visual	NONE	NONE	NONE	
	earance	scalar	*Visual	NORML	NORML	NORML	
Odo		scalar	*Visual	NORML	NORML	NORML	
Emu	Isified Water	scalar	*Visual	>0.2	NEG	NEG	
Sod	lium	ppm	ASTM D5185m	>158	2	2	
Bord	on	ppm	ASTM D5185m	250	171	10	
Bari		ppm	ASTM D5185m	10	0	0	
Mol	ybdenum	ppm	ASTM D5185m	100	86	77	
	nganese	ppm	ASTM D5185m		<1	1	
	gnesium	ppm	ASTM D5185m	450	604	882	
Calo	cium	ppm	ASTM D5185m	3000	1409	1148	
	sphorus	ppm	ASTM D5185m	1150	1029	1002	
Zinc	-	ppm	ASTM D5185m	1350	1225	1173	
Sulf	ur	ppm	ASTM D5185m	4250	3267	2378	
	dation	Abs/.1mm	*ASTM D7414	>25	16.1	18.1	
	Number (BN)	mg KOH/g	ASTM D2896	8.5	6.6	7.8	
	© 100°C	cSt	ASTM D445	14.4	12.0	11.8	
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 Unique Number
 : 10937195
 Diagnosed
 : 21 Mar 2024 - Don Baldridge

 Certificate 12367
 Test Package
 : FLEET
 OC

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 Audrey.Ho

 * - 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)

198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105 Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com T: (336)767-9642 (JCGM 106:2012) F: x: