WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ATTENTION

Machine Id

SPARTAN/ROSENBAUER 4027

Front Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0895856	WC0623544	PC004138
	Sample Date		Client Info		02 Apr 2024	01 Jan 2022	23 Aug 202
	Machine Age	hrs	Client Info		7930	0	6267
	Oil Age	hrs	Client Info		830	623	380
	Filter Age	hrs	Client Info		830	623	380
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>75	32	9	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		1	<1	<1
	Nickel	ppm	ASTM D5185(m)		0	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	<1	2
	Aluminum	ppm	ASTM D5185(m)	>15	6	2	3
	Lead	ppm	ASTM D5185(m)	>25	6	<1	2
	Copper	ppm	ASTM D5185(m)	>100	4	2	5
	Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	\ 25	12	4	8
Test for glycol is positive. There is a light concentration of glycol present in the oil.	Potassium	ppm	ASTM D5185(m)		<u> </u>	1	2
	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol	%	ASTM D7922*		△ 0.01	NEG	NEG
	Soot %	%	ASTM D7844*	>6	0.5	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	10.6	7.4	8.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	24.3	19.1	19.7
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		89	2	2
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	0	7	13	7
	Barium	ppm	ASTM D5185(m)		0	<1	3
	Molybdenum	ppm	ASTM D5185(m)		35	32	37
	Manganese	ppm	ASTM D5185(m)	0	<1	<1	4
	Magnesium	ppm	ASTM D5185(m)	1010	381	420	572
	Calcium	ppm	ASTM D5185(m)	1070	1880	1761	1546
	Phosphorus	ppm	ASTM D5185(m)	1150	896	1019	1021
	Zinc	ppm	ASTM D5185(m)	1270	1096	1154	1180
			ACTM DE10E()	2060	0704	0070	2852
	Sulfur	ppm	ASTM D5185(m)	2060	2784	2972	2002

Oxidation

Visc @ 100°C cSt

12.4

7.69

13.1

18.0

5.63

12.9

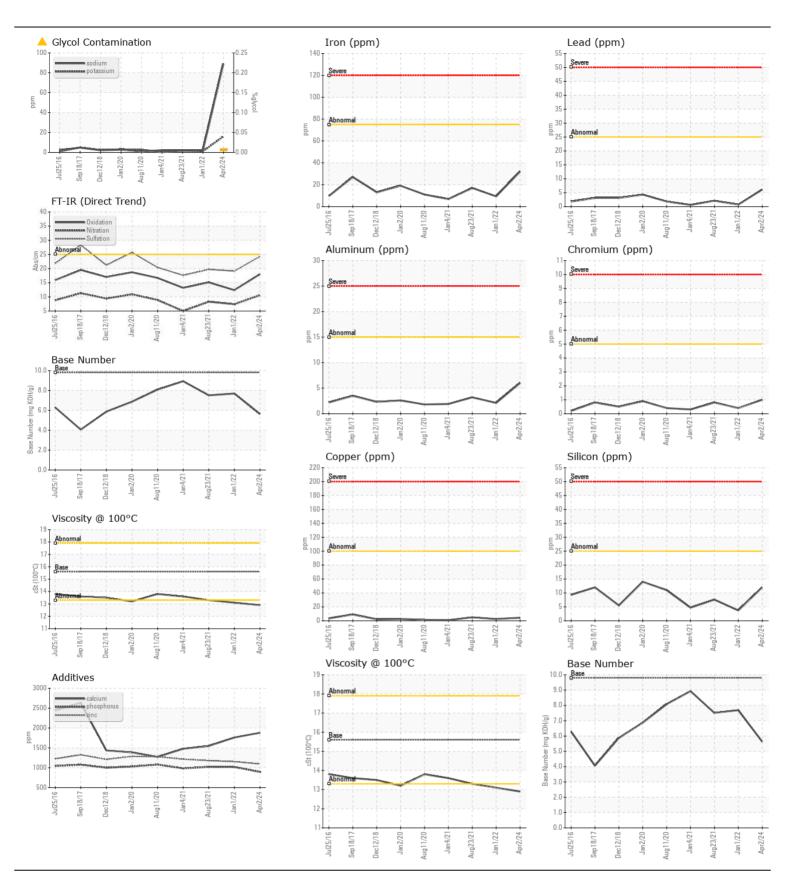
ASTM D7279(m)

Base Number (BN) mg KOH/g ASTM D2896* 9.8

15.1

13.3

7.51





ISO 17025:2017 Accredited Laboratory: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9Sample No.: WC0895856Received: 12 Apr 2024

 0 17025:2017
 Lab Number
 : 02628349
 Tested
 : 12 Apr 2024

 Accredited Laboratory
 Unique Number
 : 5761481
 Diagnosed
 : 12 Apr 2024 - Wes Davis

Test Package : MOB 2 (Additional Tests: Glycol)
To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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