

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id KOMATSU 7 Component Front Diesel Engine Fluid UNITED OIL DURALENE (--- GAL)

RECOMMENDATION	Toot		Mathad	Limit/Alex-	Cumment	Lilatorrit	Lister:0
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current DC0034276	History1 DC0033379	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		23 May 2024		DC0030628
	Sample Date Machine Age	bro	Client Info Client Info	_	,	04 Jan 2024 250	19 Sep 2023 250
	•	hrs	Client Info		250		
	Oil Age Filter Age	hrs hrs	Client Info	_	0 0	0	0
	Oil Changed	1115	Client Info				
	Filter Changed		Client Info		Changed Changed	Changed Changed	Changed
	Sample Status		Client Inio		Changed NORMAL	NORMAL	Changed NORMAL
						NORIVIAL	NORIVIAL
WEAR	Iron	ppm	ASTM D5185m	>100	22	9	10
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	2	0
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	5	5	5
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
					_		_
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	6	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	2	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.1	5.8
	Sulfation	Abs/.1mm	*ASTM D7415		19.2	18.3	17.9
	Silt Debris	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE NONE
	Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
		Jouran	VISUUI	20.L		NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		2	0	1
	Boron	ppm	ASTM D5185m		58	89	59
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		53	74	56
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		356	445	416
	Calcium	ppm	ASTM D5185m		1966	2187	1870
	Phosphorus	ppm	ASTM D5185m		1081	1297	1052
	Zinc	ppm	ASTM D5185m		1249	1472	1279
	Sulfur	ppm	ASTM D5185m		4146	4649	3815
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	13.9	13.2
	Base Number (BN)	mg KOH/g	ASTM D2896		9.0	8.6	7.9
	Vier @ 10000	- 01	AOTA DAAF		10.0	107	10.0

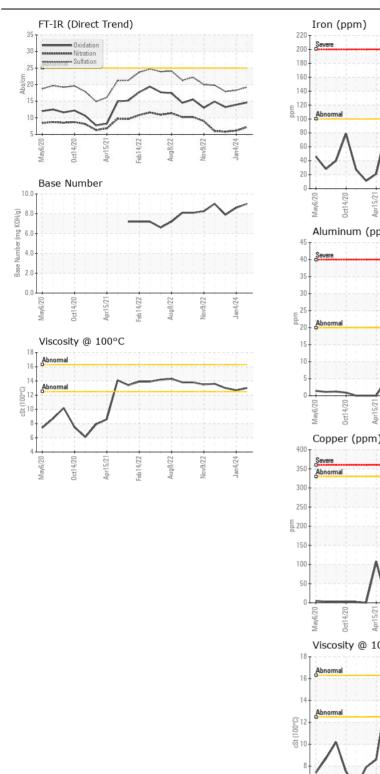
Visc @ 100°C cSt

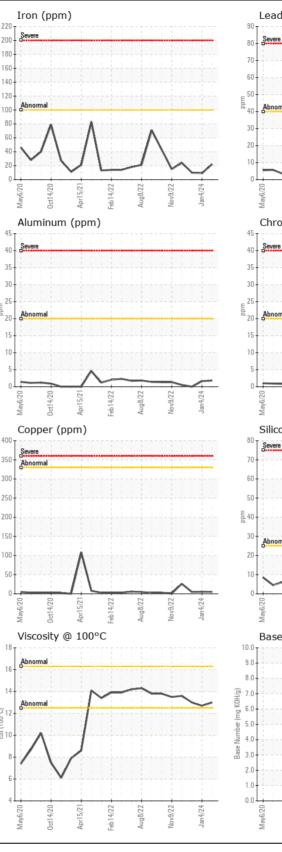
ASTM D445

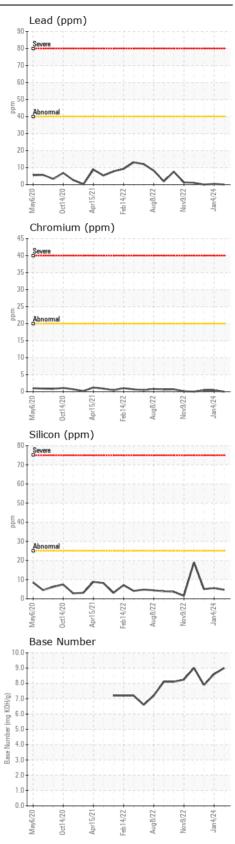
12.7

13.0

13.0







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SIMS ARG Sample No. : DC0034276 Received : 17 Jun 2024 3100 WEEDON STREET Lab Number : 06211470 Tested BALTIMORE, MD : 19 Jun 2024 Unique Number : 11084334 : 19 Jun 2024 - Wes Davis US 21226 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: MARK NUZZO Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mark.nuzzo@simsmm.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)355-1488 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)355-5423

Contact/Location: MARK NUZZO - BALBAL Page 2 of 2