

OIL ANALYSIS REPORT

SAMPLE INFORMATION method limit/base

Sample Rating Trend NORMAL



Area KEMP QUARRIES / RIVER VALLEY BACKBONE WL147 Component Hydraulic System AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

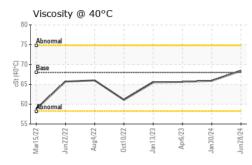
Fluid Condition

The condition of the oil is acceptable for the time in service.

Comple Number		method	IIIII/Dase	current	TIIStOLA	nistory2
Sample Number		Client Info		PCA0108594	PCA0069952	PCA0085829
Sample Date		Client Info		28 Jun 2024	30 Jan 2024	06 Apr 2023
Machine Age	hrs	Client Info		29928	29627	28770
Oil Age	hrs	Client Info		301	1200	345
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	3	<1
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	3	<1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	0	1	0
Tin	ppm	ASTM D5185m	>10	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	4	<1	1
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	1	5	2
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	25	4	36	14
Calcium	ppm	ASTM D5185m	200	85	113	141
Phosphorus	ppm	ASTM D5185m	300	350	387	360
Zinc	ppm	ASTM D5185m	370	443	483	477
Sulfur	ppm	ASTM D5185m	2500	1031	892	779
CONTAMINAN	те					
CONTAMINAN	10	method	limit/base	current	history1	history2
	ppm		limit/base >20	current <1	history1 1	history2 <1
Silicon						
Silicon Sodium	ppm	ASTM D5185m	>20	<1	1	<1
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>20	<1 <1 <1	1 0	<1 0 0 history2
Silicon Sodium Potassium VISUAL	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	<1 <1 <1	1 0 <1	<1 0 0
Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>20 >20 limit/base	<1 <1 <1 current	1 0 <1 history1	<1 0 0 history2
Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>20 >20 limit/base NONE	<1 <1 <1 current NONE	1 0 <1 history1 NONE	<1 0 0 history2 NONE
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method *Visual *Visual	>20 >20 limit/base NONE NONE	<1 <1 <1 current NONE NONE	1 0 <1 history1 NONE NONE	<1 0 0 history2 NONE NONE
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m • Wisual * Visual * Visual	>20 >20 limit/base NONE NONE NONE	<1 <1 <1 current NONE NONE NONE	1 0 <1 history1 NONE NONE NONE	<1 0 0 history2 NONE NONE NONE
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	<1 <1 <1 NONE NONE NONE NONE NONE	1 0 <1 NONE NONE NONE NONE NONE	<1 0 0 history2 NONE NONE NONE NONE
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	<1 <1 <1 NONE NONE NONE NONE NONE NONE	1 0 <1 NONE NONE NONE NONE NONE NONE	<1 0 0 history2 NONE NONE NONE NONE NONE
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE NONE	<1 <1 <1 NONE NONE NONE NONE NONE NONE NONE	1 0 <1 NONE NONE NONE NONE NONE NONE NONE	<1 0 0 history2 NONE NONE NONE NONE NONE
Silicon Sodium Potassium	ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NORE	<1 <1 <1 NONE NONE NONE NONE NONE NONE NONE NON	1 0 <1 NONE NONE NONE NONE NONE NONE NONE NON	<1 0 0 NONE NONE NONE NONE NONE NONE NONE
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>20 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	<1 <1 <1 NONE NONE NONE NONE NONE NONE NORE NORML NORML	1 0 <1 NONE NONE NONE NONE NONE NONE NORML NORML	<1 0 0 history2 NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT



	FLUID PROPE	RTIES	method	limit/base	current	history1	history2								
	Visc @ 40°C	cSt	ASTM D445	D445 68	68.4	65.9	65.6								
	SAMPLE IMAG	GES	method	limit/base	current	history1	history2								
24	Color				no image	no image	no image								
Jun28/24	Bottom				no image	no image	no image								
	GRAPHS														
	Iron (ppm)			3	L I I										
	30			2											
	E 20 - Abnormal			E.1	5										
	10			1	Abnormal										
		2	24			3 23	24								
	Mar15/22 Jun22/22 Aug4/22	Oct10/22 Jan13/23	Apr6/23 Jan30/24	Jun28/24	Mar15/22 Jun22/22 Aug4/22	0ct10/22 Jan13/23	Apr6/23 Jan 30/24								
	Aluminum (ppm)			3	Chromium (pp	om)									
	25 - Severe			2	Sminne										
	20 - E 10			2 탄 1											
	Abnormal			el 1	Abnormal										
	5-				5										
	Mar15/22	Oct10/22 - Jan13/23 -	Apr6/23 - Jan30/24 -	Jun28/24	Mar15/22	0ct10/22 - Jan13/23 -	Apr6/23 . Jan30/24 -								
	📱 🗏 🤻 Copper (ppm)	Jai	Jai	μĻ	≝ [_] ∃ ₹ Silicon (ppm)	0c Jai	Jai								
	250			6											
	200 - Severe			5											
8	150 100			E 3	Abnormal										
	Abnormal 50 -			2											
		22	23			22	23								
	Mar15/22 Jun22/22 Aug4/22	Oct10/22 Jan13/23	Apr6/23 Jan 30/24	Jun28/24	Mar15/22 Jun22/22 Aug4/22	0ct10/22 Jan13/23	Apr6/23 Jan 30/24								
	Viscosity @ 40°C			140	Additives										
	75 Abnormal			120	calcium										
Ĩ	(2,70 ⊕ ₩ ₩ 65			100 E ⁸⁰	- states zinc										
	र् हें 65			40	and the second s										
	60 55			20	A CONTRACTOR OF A CONTRACTOR O										
	Mar15/22	Oct10/22 - Jan13/23 -	Apr6/23 - Jan 30/24 -	Jun28/24	Mar15/22 - Jun22/22 - Aug4/22 -	0ct10/22 - Jan13/23 -	Apr6/23 - Jan30/24 -								
	Ma Jun	Jan	Jan	Jur	Ma Jun Au	Jan	Jan J								

- Test Package : MOB 1 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.
- * 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)

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